

## Index of research groups / institutes

| Research group / institute  | Project title   | Page |
|---|---|------|
| AWI, Alfred Wegener Institute<br>for Polar and Marine Research<br>Postfach 120161<br>27515 Bremerhaven / Germany<br>Contact: Olaf Eisen<br>Tel.: +49 471 4831 1969  | Linking micro-physical properties to<br>macro features in ice sheets with<br>geophysical techniques (LIMPICS)<br><a href="http://www.awi.de/en/go/limpics">http://www.awi.de/en/go/limpics</a>  | 157  |
| Belgian Institute for Space<br>Aeronomy<br>Ringlaan 3<br>B-1180 Brussels<br>Belgium<br>Contact: Martine De Mazière<br>Tel. +32 2 373 03 63  | Atmospheric physics and chemistry<br><a href="http://www.oma.be/BIRA-IASB/">http://www.oma.be/BIRA-IASB/</a><br><a href="http://www.oma.be/AGACC/Home.html">http://www.oma.be/AGACC/Home.html</a><br><a href="http://www.geomon.eu">http://www.geomon.eu</a>                                      | 15   |
| Berner Fachhochschule, Technik<br>und Informatik<br>Fachbereich Elektro- und<br>Kommunikationstechnik<br>Photovoltaiklabor<br>Jlocweg 1<br>CH-3400 Burgdorf<br>Contact: Heinrich Haeblerlin<br>Tel.: +41 34 426 68 53 | Long-term energy yield and reliability of a<br>high alpine PV (photovoltaic) plant at<br>Jungfraujoeh (3454 m)<br><a href="http://www.pvtest.ch">http://www.pvtest.ch</a>   | 118  |
| Botanisches Institut<br>Universität Basel<br>Schönbeinstrasse 6<br>CH-4056 Basel<br>Contact: Christian Körner<br>Tel.: +41 61 267 35 10   | Study of plant temperature<br><a href="http://pages.unibas.ch/botschoen/koerner/index.shtml">http://pages.unibas.ch/botschoen/koerner/index.shtml</a>   | 127  |
| Bundesamt für Gesundheit<br>Sektion Umweltradioaktivität<br>Schwarzenburgstrasse 165<br>CH-3003 Bern<br>Contact: Sybille Estier<br>Tel.: +41 31 325 19 10   | Aerosols radioactivity monitoring<br>(RADAIR) and DIGITEL<br><a href="http://www.radair.ch">http://www.radair.ch</a><br><a href="http://www.bag.admin.ch/themen/strahlung/00043/00065/02239/index.html?lang=de">http://www.bag.admin.ch/themen/strahlung/00043/00065/02239/index.html?lang=de</a> | 93   |
| Bundesamt für Landestopografie<br>(swisstopo)<br>Seftigenstrasse 264<br>CH-3084 Wabern<br>Contact: Elmar Brockmann<br>Tel.:+41 31 963 2111  | Automated GPS Network Switzerland<br>(AGNES)<br><a href="http://www.swisstopo.ch">http://www.swisstopo.ch</a>   | 143  |
| Bundesamt für Strahlenschutz<br>Rosastrasse 9<br>79098 Freiburg / Germany<br>Contact: Clemens Schlosser<br>cschlosser@bfs.de  | <sup>85</sup> Kr Activity Determination in<br>Tropospheric Air  | 112  |

| Research group / institute  | Project title   | Page |
|---|---|------|
| Centre for Isotope Research (CIO)<br>Nijenborgh 4<br>9747 AG Groningen<br>The Netherlands<br>Contact: Rolf Neubert<br>Tel.: +31 50 363 7216                               | Flask comparison on Jungfrauoch   | 66   |
| Departement für<br>Geowissenschaften<br>Universität Fribourg<br>Chemin du Musée 6<br>CH-1700 Fribourg<br>Contact: Mario Meier<br>Tel.: +41 26 300 8933                    | Single particle analysis of aerosols from<br>Saharan dust events<br><a href="http://www.unifr.ch/geology">www.unifr.ch/geology</a>  | 91   |
| Department of Physics<br>University of Rome La Sapienza<br>P.za A. Moro 5<br>00198 Rome / Italy<br>Contact: Maurizio Iori<br>Tel.: +39 06 4991 4422                       | Study of a prototype for a new concept of<br>an EAS detector<br><a href="http://terminus.roma1.infn.it/new_site/tauwer/index.htm">http://terminus.roma1.infn.it/new_site/tauwer/index.htm</a> | 108  |
| Department of Geography<br>University of Zurich<br>Winterthurerstr. 190<br>CH-8057 Zurich, Switzerland<br>Contact: Stephan Gruber<br>Tel.: +41-1-635 51 46                | Permasense & Permos: Measuring<br>permafrost in Alpine rock walls<br><a href="http://www.geo.uzh.ch">www.geo.uzh.ch</a>   | 139  |
| Eawag<br>Überlandstr. 133<br>CH-8600 Dübendorf<br>Contact: Jürg Beer<br>Tel.: +41 44 823 51 11  | Cosmogenic radionuclides in precipitation<br><a href="http://www.eawag.ch/research_e/surf/e_index.htm">http://www.eawag.ch/research_e/surf/e_index.htm</a>                                    | 104  |
| École Polytechnique Fédérale de<br>Lausanne (EPFL)<br>EPFL ENAC EFLUM<br>A0 434<br>Station 2<br>CH 1015 Lausanne<br>Contact: Valentin Simeonov<br>Tel. +41 21 693 61 85   | Active optical remote sensing, LIDAR<br><a href="http://eflum.epfl.ch/">http://eflum.epfl.ch/</a>   | 23   |
| Empa<br>Laboratory for Air Pollution and<br>Environmental Technology<br>Ueberlandstrasse 129<br>CH-8600 Dübendorf<br>Contact: Martin Steinbacher<br>Tel.: +41 44 823 4654 | National Air Pollution Monitoring<br>Network (NABEL)<br><a href="http://www.empa.ch/nabel">http://www.empa.ch/nabel</a>   | 37   |

| Research group / institute   | Project title  | Page |
|--|--|------|
| Empa<br>Laboratory for Air Pollution and<br>Environmental Technology<br>Ueberlandstrasse 129<br>CH-8600 Dübendorf<br>Contact: Martin K. Vollmer<br>Tel.: +41 44 823 4242             | Halogenated Greenhouse Gases at<br>Jungfrauoch<br><a href="http://www.empa.ch/climate_gases">http://www.empa.ch/climate_gases</a>                        | 45   |
| Empa<br>Laboratory for Air Pollution and<br>Environmental Technology<br>Ueberlandstrasse 129<br>CH-8600 Dübendorf<br>Contact: Lukas Emmenegger<br>Tel.: +41 44 823 4699              | Continuous measurement of stable CO <sub>2</sub><br>isotopes at Jungfrauoch, Switzerland<br><a href="http://empa.ch/abt134">http://empa.ch/abt134</a>    | 68   |
| ETH Zürich<br>Institute for Atmospheric and<br>Climate Science<br>Universitätsstrasse 16<br>CH-8092 Zürich<br>Contact: Erika Kienast-Sjögren<br>Tel: +41 44 633 40 63                | Assessment of high altitude cloud<br>characteristics, CLACE 2010 campaign<br><a href="http://www.iac.ethz.ch">http://www.iac.ethz.ch</a>                 | 25   |
| ETH Zürich<br>Versuchsanstalt für Wasserbau,<br>Hydrologie und Glaziologie<br>(VAW)<br>Gloriastrasse 37/39<br>CH-8092 Zürich<br>Contact: Andreas Bauder<br>Tel.: +41 44 632 4112     | Glaciological investigations on the<br>Grosser Aletschgletscher<br><a href="http://www.vaw.ethz.ch/divisions/gz">http://www.vaw.ethz.ch/divisions/gz</a> | 137  |
| ETH Zürich<br>Versuchsanstalt für Wasserbau,<br>Hydrologie und Glaziologie<br>(VAW)<br>Gloriastrasse 37/39<br>CH-8092 Zürich<br>Contact: Martin Funk<br>Tel.: +41 44 632 4132        | The Polythermal Structure of<br>Gornergletscher (Valais)<br><a href="http://www.vaw.ethz.ch">http://www.vaw.ethz.ch</a>                                  | 165  |
| Federal Office of Meteorology<br>and Climatology<br>MeteoSwiss<br>Measuring Technology<br>Ch. de l'Aérologie<br>CH-1530 Payerne<br>Contact: Christian Félix<br>Tel.: +41 26 662 6226 | Operation of a meteorological station at<br>high altitude in the Alps<br><a href="http://www.meteoswiss.ch">http://www.meteoswiss.ch</a>                 | 145  |

| Research group / institute   | Project title  | Page |
|--|--|------|
| Helbling Technik Bern AG<br>Stationsstrasse 12<br>3097 Liebefeld-Bern<br>Contact: Pascal Loser<br>Tel. +41 (0) 31 979 16 11  | Low-pressure test on optical devices<br><a href="http://www.helbling.ch">www.helbling.ch</a>   | 121  |
| I. Physikalisches Institut<br>Universität zu Köln<br>Zülpicher Str. 77<br>50937 Köln / Germany<br>and<br>Radioastronomisches Institut<br>der Universität Bonn<br>Auf dem Hügel 71<br>53121 Bonn / Germany<br>Contact: Jürgen Stutzki<br>Tel.: +49 221 470 3494 | KOSMA - Kölner Observatorium für<br>Submm-Astronomie<br><a href="http://www.ph1.uni-koeln.de/kosma">http://www.ph1.uni-koeln.de/kosma</a><br><a href="http://www.astro.uni-bonn.de">http://www.astro.uni-bonn.de</a>     | 154  |
| Institut d'Astrophysique et de<br>Géophysique - Université de<br>Liège<br>allée du VI août, 17 - Bâtiment<br>B5a<br>B-4000 Sart Tilman (Liège,<br>Belgique)<br>Contact: Christian Servais<br>Tel. +32 4 366 9784   | High resolution, solar infrared Fourier<br>Transform spectrometry. Application to<br>the study of the Earth atmosphere<br><a href="http://girpas.astro.ulg.ac.be/">http://girpas.astro.ulg.ac.be/</a>                    | 5    |
| Institut für<br>Umweltgeowissenschaften<br>Universität Basel<br>Bernoullistrasse 30<br>CH-4056 Basel<br>Contact: Franz Conen<br>Tel.: +41 61 267 0481  | Quantifying mountain venting of<br>boundary layer air through $^{222}\text{Rn}$<br>measurements<br><a href="http://pages.unibas.ch/environment/">http://pages.unibas.ch/environment/</a>                                 | 115  |
| Institut für<br>Umweltgeowissenschaften<br>Universität Basel<br>Bernoullistrasse 30<br>CH-4056 Basel<br>Contact: Franz Conen<br>Tel.: +41 61 267 0481  | Towards understanding the importance of<br>biological ice nucleators in rising air<br><a href="http://pages.unibas.ch/environment/">http://pages.unibas.ch/environment/</a>  | 125  |
| Institut für Umweltphysik<br>Universität Heidelberg<br>Im Neuenheimer Feld 229<br>69120 Heidelberg / Germany<br>Contact: Ingeborg Levin<br>Tel.: +49 6221 546330   | Long-term observations of $^{14}\text{CO}_2$ at<br>Jungfraujoch<br><a href="http://www.iup.uni-heidelberg.de/institut/forschung/groups/kk/">http://www.iup.uni-<br/>heidelberg.de/institut/forschung/groups/kk<br/>/</a> | 110  |

| Research group / institute   | Project title  | Page |
|--|--|------|
| Institut für<br>Weltraumwissenschaften<br>Freie Universität Berlin<br>Carl-Heinrich-Becker-Weg 6-10<br>12165 Berlin / Germany<br>Contact: Thomas Ruhtz<br>Tel.: +49-(0)30 838 56 662                             | Calibration of Sun and aureole<br>spectrometer systems within the Cloud<br>and Aerosol Characterization Experiment<br>(CLACE)<br><a href="http://userpage.fu-berlin.de/geoiss/en/home.html">http://userpage.fu-berlin.de/geoiss/en/home.html</a>                                   | 86   |
| Institute for Atmospheric and<br>Climate Science<br>ETH Zurich<br>Universitätsstrasse 16, CHN<br>O16.3<br>CH-8092 Zürich<br>Contact: Olaf Stetzer<br>Tel.: +41 44 633 6161                                       | Field measurements of atmospheric ice<br>nuclei and properties of mixed phase<br>clouds<br><a href="http://www.iac.ethz.ch/">http://www.iac.ethz.ch/</a>   | 89   |
| Institute for Atmospheric and<br>Climate Science (IACETH)<br>Swiss Federal Institute of<br>Technology Zürich<br>Universitätstrasse 16<br>CH-8092 Zürich<br>Contact: Johannes Staehelin<br>Tel.: +41 01 633 27 48 | NO <sub>y</sub> at the interface of planetary<br>boundary layer and the free troposphere<br>from measurements at Jungfrauoch (trace<br>gas measurements at Jungfrauoch)<br><a href="http://www.iac.ethz.ch">http://www.iac.ethz.ch</a>   | 52   |
| Institute of Geology, ETH Zürich<br>Earth Surface Dynamics Group<br>NO E31<br>Sonneggstr. 5<br>CH-8092 Zürich<br>Contact: Florian Kober<br>Tel.: +41-+44-6320361   | Altitude dependence of production rates<br>of cosmogenic nuclides in artificial quartz<br>targets<br><a href="http://www.esd.ethz.ch/people/fkober">http://www.esd.ethz.ch/people/fkober</a>   | 106  |
| Laboratory of Atmospheric<br>Chemistry<br>Paul Scherrer Institut (PSI)<br>CH-5232 Villigen<br>Switzerland<br>Contact: Ernest Weingartner<br>Tel. +41 56 310 2405   | The Global Atmosphere Watch Aerosol<br>Program at the Jungfrauoch<br><a href="http://www.psi.ch/gaw">http://www.psi.ch/gaw</a><br><a href="http://www.psi.ch/lac">http://www.psi.ch/lac</a><br><a href="http://aerosolforschung.web.psi.ch">http://aerosolforschung.web.psi.ch</a> | 71   |
| Laboratory of Atmospheric<br>Physics<br>Aristotle University of<br>Thessaloniki<br>Campus Box 149<br>54124Thessaloniki<br>Greece<br>Contact: Alkiviadis Bais<br>Tel. +30 2310 998184                             | Validation of retrieval of atmospheric<br>trace gases with Phaethon system using<br>differential optical absorption<br>spectroscopy<br><a href="http://lap.physics.auth.gr/index.asp?lang=en">http://lap.physics.auth.gr/index.asp?lang=en</a>                                     | 21   |

| Research group / institute  | Project title   | Page |
|---|---|------|
| Mammut Sports Group<br>Birren 5<br>CH-5703 Seon<br>Contact: Lars Paschek<br>Tel.: +41 (0) 62 769 8350   | Test-station for outdoor materials<br><a href="http://www.mammut.ch">www.mammut.ch</a>  | 122  |
| Max Planck Institut für<br>Biogeochemie<br>Hans Knöll Str. 10<br>07745 Jena / Germany<br>Contact: Willi A. Brand<br>Tel.: +49 3641 576400   | Flask comparison on Jungfrauoch<br><a href="http://www.bgc-jena.mpg.de">http://www.bgc-jena.mpg.de</a>  | 62   |
| MeteoSchweiz<br>Krähbühlstrasse 58<br>CH-8044 Zürich<br>Contact: Stephan Bader<br>Tel. +41 44 256 91 11   | The weather in 2010: Report for the<br>International Foundation HFSJG<br><a href="http://www.meteoschweiz.ch">http://www.meteoschweiz.ch</a>  | 148  |
| Office fédéral de météorologie et<br>de climatologie MétéoSuisse<br>Station Aérologique<br>ch. de l'Aérologie<br>CH-1530 Payerne<br>Contact: Laurent Vuilleumier<br>Tel.: +41 26 662 6306 | Global Atmosphere Watch Radiation<br>Measurements<br><a href="http://www.meteoswiss.ch/web/en/climate/climate_international/gaw-ch/radiation.html">http://www.meteoswiss.ch/web/en/climate/climate_international/gaw-ch/radiation.html</a>  | 28   |
| Paul Scherrer Institut<br>Laboratory of Radiochemistry and<br>Environmental Chemistry<br>CH-5232 Villigen PSI,<br>Switzerland<br>Contact: Margit Schwikowski<br>Tel.: +41 56 310 4110     | Accelerated release of persistent organic<br>pollutants (POPs) from Alpine glaciers<br><a href="http://lch.web.psi.ch/webcontent/research/analytic/">http://lch.web.psi.ch/webcontent/research/analytic/</a><br>Snow chemistry, reconstruction of palaeo<br>atmosphere and climate from high-altitude<br>ice cores. | 131  |
| Physikalisches Institut<br>Universität Bern<br>Sidlerstrasse 5<br>CH-3012 Bern<br>Contact: Markus Leuenberger<br>Tel.: +41 31 631 44 70   | High precision carbon dioxide and oxygen<br>measurements<br><a href="http://www.climate.unibe.ch/">http://www.climate.unibe.ch/</a>   | 58   |
| Physikalisches Institut<br>Universität Bern<br>Sidlerstrasse 5<br>CH-3012 Bern<br>Contact: Rolf Bütikofer<br>Tel.: +41 31 631 4058  | Neutron monitors - Study of solar and<br>galactic cosmic rays<br><a href="http://cosray.unibe.ch/nm/index1.html">http://cosray.unibe.ch/nm/index1.html</a>  | 100  |
| Physikalisches Institut<br>Universität Bern<br>Sidlerstrasse 5<br>CH-3012 Bern<br>Contact: Rolf Bütikofer<br>Tel.: +41 31 631 4058  | SONTEL - Solar Neutron Telescope for<br>the identification and the study of high-<br>energy neutrons produced in energetic<br>eruptions at the Sun<br><a href="http://cosray.unibe.ch/detectors/sonstel/sonstel.html">http://cosray.unibe.ch/detectors/sonstel/sonstel.html</a>                                     | 16   |

| Research group / institute   | Project title  | Page |
|--|--|------|
| PMOD/WRC<br>Dorfstrasse 33<br>CH-7260 Davos Dorf<br>Tel.: +41 81 417 5137<br>Contact: Christoph Wehrli<br>Tel.: +41 81 417 5137  | Remote sensing of aerosol optical depth<br><a href="http://www.pmodwrc.ch">http://www.pmodwrc.ch</a>   | 33   |
| PMOD/WRC<br>Dorfstrasse 33<br>7260 Davos Dorf<br>Contact: Julian Gröbner<br>Tel.: +41 814175157  | Longwave Infrared radiative forcing trend assimilation over Switzerland (LIRAS)<br>Cloud Climatology and Surface Radiative Forcing over Switzerland (CLASS)<br><a href="http://www.pmodwrc.ch">http://www.pmodwrc.ch</a>   | 35   |
| Swiss Federal Institute of Technology, ETH Zurich<br>Institute for Chemical and Bioengineering, ICB<br>Wolfgang-Pauli-Strasse 10<br>CH-8093 Zürich<br>Contact: Christian Bogdal<br>Tel.: +41 44 632 5951 | Quantitative characterization of the impact of environmental factors on the performance of passive air samplers for semi-volatile organic compounds<br><a href="http://www.sust-chem.ethz.ch/people/current_members/bogdalC">http://www.sust-chem.ethz.ch/people/current_members/bogdalC</a> | 134  |
| University Hospital Lausanne,<br>Department of Internal Medicine<br>BH 10.640<br>1011 Lausanne-CHUV<br>Contact: Claudio Sartori<br>Tel.: +41 21 314 09 30  | Long-Term Medical Survey System (LTMS-3)   | 123  |
| University of Fribourg<br>Department of Geosciences - Geography Unit<br>Chemin du Musée 4<br>CH-1700 Fribourg<br>Contact: Christian Hauck<br>Tel.: +41 26 300 9011                                       | Geophysical monitoring of the evolution of permafrost on Stockhorn<br><a href="http://www.unifr.ch/geoscience/geographie/dokuwiki/doku.php?id=staff:hauck.christian">http://www.unifr.ch/geoscience/geographie/dokuwiki/doku.php?id=staff:hauck.christian</a>                                | 162  |
| WSL Institute for Snow and Avalanche Research SLF<br>Flüelastrasse 11<br>CH-7260 Davos Dorf<br>Switzerland<br>Contact: Marcia Phillips<br>Tel.: +41 81 417 02 18   | Permafrost monitoring at high Alpine sites<br><a href="http://www.slf.ch">www.slf.ch</a>   | 141  |