

Index of research groups / institutes

Research group / institute	Project title	Page
Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels Belgium Contact: Michel Van Roozendael Tel. +32 2 373 03 63	Atmospheric physics and chemistry http://www.oma.be/BIRA-IASB/ http://agacc.aeronomie.be http://infrared.aeronomie.be http://uv-vis.aeronomie.be/ http://www.geomon.eu http://nors.aeronomie.be/	15
Bersinger Walter Obermattenstrasse 9 CH-8153 Rümlang Switzerland Contact: Walter Bersinger Tel.: +41 44 817 28 13	'In der Helle der Nacht' (in the Brightness of the Night): Single frame time-lapse video. http://www.homepage.bluewin.ch/wabers	148
Bundesamt für Gesundheit Sektion Umweltradioaktivität Schwarzenburgstrasse 165 CH-3003 Bern Contact: Pierre Beuret Tel.: +41 31 325 19 10	Aerosol Monitoring of radioactivity α , β , γ http://www.radair.ch http://www.bag.admin.ch/themen/strahlung/00043/00065/02239/index.html?lang=de	43
Bundesamt für Strahlenschutz Rosastrasse 9 79098 Freiburg / Germany Contact: Clemens Schlosser cschlosser@bfs.de Climate and Environmental Physics, University of Bern CH-3012 Bern	^{85}Kr Activity Determination in Tropospheric Air http://www.bfs.de/bfs	57
Centre for Isotope Research (CIO) Nijenborgh 4 9747 AG Groningen The Netherlands Contact: Harro Meijer Tel.: +31 50 363 4738	Flask sample takings for intercomparison between UBERN, MPI_BGC Jena and University Groningen regarding CO_2 and O_2 and other species http://www.rug.nl/fmns-research/cio/index?lang=en	71
Department of Environmental Sciences University of Basel Bernoullistrasse 30 CH-4056 Basel Contact: Franz Conen Tel. : +41 61 267 04 81	Quantification of biological ice nucleators at cloud height http://pages.unibas.ch/environment/	98
Department of Environmental Sciences University of Basel Bernoullistrasse 30 CH-4056 Basel Contact: Franz Conen Tel. : +41 61 267 04 81	Quantifying mountain venting of boundary layer air through Rn^{222} measurements http://pages.unibas.ch/environment/	95

Research group / institute	Project title	Page
Department of Geography University of Zurich Winterthurerstr. 190 CH-8057 Zurich, Switzerland Contact: Stephan Gruber Tel.: +41 44 635 51 46	Permasense www.geo.uzh.ch www.permasense.ch/research/geoscience/rock-damage.html	126
Department of Geography University of Zurich Winterthurerstr. 190 CH-8057 Zurich, Switzerland Contact: Stephan Gruber Tel.: +41 44 635 51 46	Permos www.geo.uzh.ch	130
Department of Medicine Unit of Anatomy University of Fribourg Rte. A. Gockel 1 CH-1700 Fribourg Contact: Enrike G. Argandoña Tel.: +41 26 300 85 12	Effects of physical exercise and Vascular Endothelial Growth Factor on the neurogliovascular adaptation to hypoxia http://www.unifr.ch/anatomy	115
Department of Physics University of Rome La Sapienza Piazza A. Moro 5 00198 Rome / Italy Contact: Maurizio Iori Tel.: +39 06 4991 4422	Measurement of horizontal cosmic rays and test of a prototype for TAUWER project http://www.phys.uniroma1.it/DipWeb/home.html	55
Eawag Überlandstr. 133 CH-8600 Dübendorf Contact: Jürg Beer Tel.: +41 44 823 51 11	⁷ Be and ¹⁰ Be in monthly precipitation http://www.eawag.ch/organisation/abteilungen/surf/schwerpunkte/radio/index_EN	51
Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf Contact: Lukas Emmenegger Tel.: +41 58 765 46 99	Source characterization based on continuous measurements of CO ₂ isotopic ratios http://empa.ch	78
Empa Swiss Federal Laboratories for Materials Testing and Research Ueberlandstrasse 129 CH-8600 Dübendorf Contact: Lukas Emmenegger Tel.: +41 58 765 46 99	Direct and continuous measurement of NO ₂ , NO and NO _y in ambient air using quantum cascade laser absorption spectroscopy http://empa.ch/abt134	86

Research group / institute	Project title	Page
Empa Swiss Federal Laboratories for Materials Science and Technology Ueberlandstrasse 129 CH-8600 Dübendorf Contact: Christoph Hüglin Tel.: +41 58 765 46 54	National Air Pollution Monitoring Network (NABEL) www.empa.ch/nabel	63
Empa Swiss Federal Laboratories for Materials Science and Technology Ueberlandstrasse 129 CH-8600 Dübendorf Contact: Stefan Reimann Tel.: +41 58 765 46 38	Halogenated Greenhouse Gases at Jungfrauoch	81
ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich Contact: Erika Kienast-Sjögren Tel: +41 44 633 40 12	Lidar measurements of cirrus cloud properties in the midlatitudes http://www.iac.ethz.ch	18
ETH Zürich Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) Gloriastrasse 37-39 CH-8092 Zürich Contact: Andreas Bauder Tel.: +41 44 632 4112	Glaciological investigations on the Grosser Aletschgletscher and at Jungfrauoch http://www.vaw.ethz.ch/divisions/gz	119
ETH Zürich Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) Gloriastrasse 37/39 CH-8092 Zürich Contact: Martin Funk Tel.: +41 44 632 4132	The Polythermal Structure of Gornergletscher (Valais) http://www.vaw.ethz.ch	155
Federal Office of Meteorology and Climatology MeteoSwiss Atmospheric Measurements and Data Section Ch. de l'Aérologie CH-1530 Payerne Contact: Laurent Vuilleumier Tel.: +41 26 662 6306	Global Atmosphere Watch Radiation Measurements http://www.meteoswiss.ch/web/en/climate/climate_international/gawch/radiation.html	41
Federal Office of Meteorology and Climatology MeteoSwiss Station Aérologique de Payerne CH-1530 Payerne Contact: Christian Félix Tel.: +41 26 662 6211	Operation of an Automatic Weather Station http://www.meteoswiss.ch	135

Research group / institute	Project title	Page
Institut für Angewandte Physik Microwave Physics University of Bern Sidlerstrasse 5 CH-3012 Bern Contact: Axel Murk Tel.: +41 31 631 86 74	STEAMR http://www.iapmw.unibe.ch/research/projects/STEAMR/index.html	93
Institut für Umweltphysik University of Heidelberg Im Neuenheimer Feld 229 D-69120 Heidelberg / Germany Contact: Ingeborg Levin Tel.: +49 6221 546405	Atmospheric CO2 sampling for Radiocarbon analysis http://www.iup.uni-heidelberg.de/institut/forschung/groups/kk/	61
Institute for Atmospheric and Climate Science ETH Zurich Universitätsstrasse 16 CH-8092 Zürich Contact: Olaf Stetzer Tel.: +41 44 633 6161	The microstructure of ice crystals and cloud droplets in mixed-phase clouds measured with HOLIMO II. The time series of ice nuclei number concentration and properties measured with PINC http://www.iac.ethz.ch/	22
Institute of Physiology, University of Zürich Winterthurerstrasse 190 CH-8057 Zürich Contact: Carsten Lundby Tel.: +41 44 635 5052	Cardiovascular adjustments to prolonged altitude exposure http://www.zihp.uzh.ch	112
Institut für Veterinär Bakteriologie Universität Bern Laenggassstr. 122 CH-3012 Bern, Switzerland Contact: Joachim Frey Tel. +41 31 631 2414 (2430) and Faculty of Geosciences Free University of Berlin Malteserstrasse 74–100 12249 Berlin, Germany Contact: Anna Gorbushina Tel. +49 30 8104 1400 (1409)	Transport and survival of desert soil- and rock- surface inhabiting micro-organisms in atmospheric mineral dust www.vetmed.unibe.ch/vbi	106
Laboratory für Radio- und Umweltchemie Paul Scherrer Institut (PSI) CH-5232 Villigen Switzerland Contact: Margit Schwikowski Tel. +41 56 310 4110	Climate reconstruction from high-alpine ice cores http://lch.web.psi.ch/webcontent/research/analytic	121

Research group / institute	Project title	Page
Laboratory of Atmospheric Chemistry Paul Scherrer Institut (PSI) CH-5232 Villigen Switzerland Contact: Ernest Weingartner Tel. +41 56 310 2405	The Global Atmosphere Watch Aerosol Monitoring Program CLACE Missions http://www.psi.ch/gaw http://www.psi.ch/lac http://aerosolforschung.web.psi.ch	24
Laboratory of Atmospheric Chemistry Paul Scherrer Institut (PSI) CH-5232 Villigen Switzerland Contact: André Prévôt Tel. +41 56 310 42 02	Aerosol Chemical Speciation Monitor (ACSM) measurements on the Jungfrauoch within the frame of the EU project ACTRIS (Aerosols, Clouds and Trace gases Research Infrastructure Network) http://www.psi.ch/lac http://www.actris.net	33
Max Planck Institut für Biogeochemie Hans Knöll Str. 10 DE-07745 Jena / Germany Contact: Willi A. Brand Tel.: +49 3641 576 400	Flask sample takings for intercomparison between UBERN, University Groningen and MPI_BGC Jena regarding CO ₂ and O ₂ and other species. http://www.bgc-jena.mpg.de	74
MeteoSchweiz Krähbühlstrasse 58 CH-8044 Zürich Contact: Stephan Bader Tel. +41 44 256 91 11	The weather in 2012: Report for the International Foundation HFSJG http://www.meteoschweiz.ch	137
Physik Institut Universität Zürich Winterthurerstrasse 190 CH-8050 Zürich Contact: Marc Schumann Tel.: +41 44 635 6692	Measurement of cosmogenic activation of ultra-pure xenon http://www.physik.uzh.ch/groups/groupbaudis	60
Physikalische Chemie Bergische Universität Wuppertal Gaussstrasse 20 42119 Wuppertal, Germany Contact: Jörg Kleffmann Tel.: +49 202 439 3534	Measurements of NO ₂ and O ₃ in the free troposphere by a LOPAP instrument http://www.uni-wuppertal.de	88
Physikalisches Institut Abteilung Klima- und Umweltp Physik Universität Bern Sidlerstrasse 5 CH-3012 Bern Contact: Markus Leuenberger Tel.: +41 31 631 44 70	Combined oxygen and carbon dioxide concentration measurements http://www.climate.unibe.ch/?L1=people&L2=personal&L3=leuenberger	68
Physikalisches Institut Universität Bern Sidlerstrasse 5 CH-3012 Bern Contact: Rolf Bütikofer Tel.: +41 31 631 4058	Neutron monitors - Study of solar and galactic cosmic rays http://cosray.unibe.ch/	52

Research group / institute	Project title	Page
Physikalisches Institut Universität Bern Sidlerstrasse 5 CH-3012 Bern Contact: Rolf Bütikofer Tel.: +41 31 631 4058	SONTEL - Solar Neutron Telescope for the identification and the study of high-energy neutrons produced in energetic eruptions at the Sun http://cosray.unibe.ch/GG	153
PMOD/WRC Dorfstrasse 33 CH-7260 Davos Dorf Contact: Stephan Nyeki Tel.: +41	Aerosol Optical Depth http://www.pmodwrc.ch	40
PMOD/WRC Dorfstrasse 33 CH-7260 Davos Dorf Contact: Julian Gröbner Tel.: +41 81 417 51 11	Cloud Climatology and Surface Radiative Forcing over Switzerland (CLASS) http://www.pmodwrc.ch	37
Pneumologie Medizinische Klinik V Ziemssenstrasse 1 80336 München, Germany Contact: Rainald Fischer Tel.: + 49 89 5160 7546	Effect of gender on high altitude adaptation: Comparison of Angiotensin-Converting-Enzyme 2-activity in plasma between men and women http://www.rainald.de	114
Société Astronomique de Liège Avenue de Cointe 5 B-4000 Liège Contact : Lempereur Benoît Tel.: +32 474 24 07 65	Observing the sky and describing the objects http://www.societeastronomiquedeliege.be/	146
Swiss Cardiovascular Center Bern University Hospital CH-3010 Bern Contact: Jean-Paul Schmid Tel. +41 31 632 89 72	Safety and exercise tolerance of acute high altitude exposure (3454m) in adolescents with congenital heart disease http://kardiorehab.insel.ch	108
Swiss Federal Institute of Technology (ETH Zurich) Wolfgang-Pauli-Strasse 10 HCI G135 CH-8093 Zürich Contact: Christian Bogdal Tel.: +41 44 632 5951	Background air monitoring of gaseous elemental mercury at the High Altitude Research Station Jungfrauoch – Source apportionment of atmospheric mercury and emission estimates in Europe. http://www.sust-chem.ethz.ch	102
Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern Contact: Elmar Brockmann Tel.:+41 31 963 22 56	Automated GNSS Network Switzerland http://www.swisstopo.ch	132

Research group / institute	Project title	Page
University of Applied Sciences Bern, Department of Engineering and Information Technology PV Laboratory Jlcoweg 1 CH-3400 Burgdorf Contact: Heinrich Haerberlin Tel.: +41 34 426 68 53	High Alpine PV (photovoltaic) Plant Jungfraujoeh http://www.pvtest.ch	142
University of Geneva Institute for Environmental Sciences Chemin de Drize 7 CH-1227 Carouge Contact: Markus Stoffel Tel.: +41 31 631 87 73	ACQWA – Assessing Climate Change Impacts on the Quantity and Quality of Water http://www.acqwa.ch	144
University of Liège Department of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgique) Contact: Christian Servais Tel. +32 4 366 97 84	Atmospheric and solar physics. Spectroscopy by Fourier Transform Interferometry http://girpas.astro.ulg.ac.be/	6
WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf Switzerland Contact: Marcia Phillips Tel.: +41 81 417 02 18	Permafrost monitoring in the Jungfrau East ridge. Construction techniques in permafrost www.slf.ch	123
Zingg, Peter E. Spielhoelzli 8 Ch-3800 Unterseen Contact: Peter E. Zingg Tel.: +41 (0)79 670 58 15	High Altitude Migration of bats over the Jungfraujoeh	107