

Collaborations and networks

Institutions collaborating with research projects at Jungfraujoch and Gornergrat in 2013:

Institution / network	Country	Collaborating with project:
Ecotech Pty Ltd G. Kassell	Australia	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
McCracken, K.G. Australia	Australia	⁷ Be and ¹⁰ Be in monthly precipitation Eawag Überlandstrasse 133 CH-8600 Dübendorf
Belgian Institute for Space Aeronomy Atmospheric physics and chemistry Dr. Katrijn Clemer, Dr. Michel Van Roozendael Ringlaan 3 B-1180 Brussels Belgium	Belgium	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Belgian Institute for Space Aeronomy Atmospheric physics and chemistry Dr. Michel Van Roozendael Ringlaan 3 B-1180 Brussels Belgium	Belgium	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf
IASB (Institut d'Aéronomie Spatiale de Belgique)	Belgium	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Institut d'Astrophysique et de Géophysique Allée du six Août, 17 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgique)
Université Libre de Bruxelles for IASI FORLI data validation	Belgium	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium

Institution / network	Country	Collaborating with project:
Université de Liège Institut d'Astrophysique et de Géophysique and NDACC Partners Allée du VI août, 17 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgique)	Belgium	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
Université de Liège Institut d'Astrophysique et de Géophysique Allée du VI août, 17 B-4000 Sart Tilman (Liège)	Belgium	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf
Collaboration with European FTIR and UV-Vis teams and modelling teams in the frame of the EU project NORS	European network	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
European FP7 project ACTRIS (Aerosols, Clouds, and Trace gases Research InfraStructure Network)	European network	Highly time resolved chemical composition measurements of non- refractory PM1 with a ToF-ACSM Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen, Switzerland
European FP7 Project Real-Time Database for High Resolution Neutron Monitor Measurements (NMDB) http://nmbd.eu/	European network	Neutron monitors - Study of solar and galactic cosmic rays Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
GAW-CH	European network	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Allée du VI août, 17 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgique)
ICOS Integrated Carbon Observation System http://www.icos-infrastructure.eu	European network	Long-term observations of ¹⁴ CO ₂ at Jungfraujoch Universität Heidelberg Institut für Umweltphysik Im Neuenheimer Feld 229 D-69120 Heidelberg

Institution / network	Country	Collaborating with project:
IMECC partners IMECC <i>Infrastructure for Measurements of the European Carbon Cycle</i> partners http://imecc.ipsl.jussieu.fr/	European network	Flask comparison on Jungfraujoch Isotope Research — Energy and Sustainability Research Institute Groningen Nijenborgh 4 9747 AG Groningen / The Netherlands
IMECC partners IMECC <i>Infrastructure for Measurements of the European Carbon Cycle</i> partners http://imecc.ipsl.jussieu.fr/	European network	Flask comparison on Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
IMECC partners IMECC <i>Infrastructure for Measurements of the European Carbon Cycle</i> partners http://imecc.ipsl.jussieu.fr/	European network	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
INUIT (Ice Nucleation Unit) project	European network	GipfelHolo instrument taking part in the CLACE 2013 / INUIT projects Institute for Atmospheric Physics University of Mainz Becherweg 21 D-55131 Mainz, Germany
Partners of the EC-project NORS http://nors.aeronomie.be	European network	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Allée du VI août, 17 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgique)
University of Helsinki Department of Physics Prof. M. Kulmala Helsinki, Finland	Finland	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
University of Helsinki Heikki Junninen 00560 Helsinki Finland	Finland	NUCLACE 2013 Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
University of Helsinki Heikki Junninen 00560 Helsinki Finland	Finland	Study of new particle formation in the free troposphere (NUCLACE-2013) Goethe University Frankfurt am M. Institute for Atmospheric and Environmental Sciences Altenhoferallee 1 D-60438 Frankfurt am Main, Germany
INRA Dr. Cindy Morris 147 rue de l'université 75338 Paris Cedex 07 France	France	Biological ice nucleators at tropospheric cloud height University of Basel Institute for Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
ISTerre, CNRS Université J. Fourier Dr. David Amitrano Grenoble, France	France	PermaSense ETH Zürich Computer Engineering and Networks Laboratory (TIK) Gloriastrasse 35 CH-8092 Zürich
LATMOS France F. Goutail, J.-P. Pommerau, A. Pazmino	France	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
Université J. Fourier Laboratoire de Glaciologie et Géophysique de l'Environnement CNRS Dr. P. Laj Grenoble, St Martin d'Hères Cedex, France	France	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Université Blaise Pascal Laboratoire de météorologie physique Dr. K. Sellegri 63170 Aubiere, France	France	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Bundesanstalt für Materialforschung und –prüfung Berlin, Deutschland	Germany	Transport and survival of desert soil- and rock surface inhabiting micro-organisms in atmospheric mineral dust Universität Bern Institut für Veterinär Bakteriologie Länggassstrasse 122 CH-3012 Bern

Institution / network	Country	Collaborating with project:
Freie Universität Berlin Prof. Dr. J. Fischer and Dr. T. Ruhtz	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Freie Universität Berlin Fachbereich Biologie, Chemie und Pharmazie & Geowissenschaften, Berlin	Germany	Transport and survival of desert soil- and rock surface inhabiting micro-organisms in atmospheric mineral dust Universität Bern Institut für Veterinär Bakteriologie Länggassstrasse 122 CH-3012 Bern
Goethe University of Frankfurt Institute for Atmospheric and Environmental Sciences 60438 Frankfurt am Main Germany	Germany	NUCLACE 2013 Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Goethe University of Frankfurt Institute for Atmospheric and Environmental Sciences 60438 Frankfurt am Main Germany	Germany	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
Goethe University of Frankfurt Institute for Atmospheric and Environmental Sciences 60438 Frankfurt am Main Germany	Germany	Composition analysis of ice particle residuals and ice nuclei combining aerosol mass spectrometry and counterflow virtual impactor technique Leibniz Institut für Troposphärenforschung Permoserstrasse 15 D-04318 Leipzig, Germany
Goethe University of Frankfurt Institute for Atmospheric and Environmental Sciences 60438 Frankfurt am Main Germany	Germany	Single-particle composition of ice nuclei and ice residuals: comparison of different measurement techniques – part of the Ice Nuclei Research Unit (INUIT) Technische Universität Darmstadt Institut für Angewandte Geowissenschaften Schnittspahnstrasse 9 D-64287 Darmstadt, Germany

Institution / network	Country	Collaborating with project:
Goethe University of Frankfurt Institute for Atmospheric and Environmental Sciences 60438 Frankfurt am Main Germany	Germany	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
IMK (Forschungszentrum Karlsruhe)	Germany	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium
Institute of Atmospheric Physics, DLR Dr. A. Petzold Oberpfaffenhofen, Germany	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Johann Wolfgang Goethe Universität Frankfurt am Main Institut für Atmosphäre und Umwelt Dr. Heinz Bingemer Christiane Schulz Frankfurt am Main, Deutschland	Germany	Field measurements of atmospheric ice nuclei and properties of mixed phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstr. 16 CH-8092 Zürich, Switzerland
Johann Wolfgang Goethe Universität Frankfurt am Main Institut für Atmosphäre und Umwelt Prof. J. Curtius Frankfurt am Main, Deutschland	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Karlsruhe Institute of Technology (KIT) Institute of Meteorology and Climate Research Dr. Martin Schnaiter Karlsruhe, Germany	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
Karlsruhe Institute of Technology (KIT) Institute of Meteorology and Climate Research Karlsruhe, Germany	Germany	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
Karlsruhe Institute of Technology (KIT) Institute of Meteorology and Climate Research Karlsruhe, Germany	Germany	Composition analysis of ice particle residuals and ice nuclei combining aerosol mass spectrometry and counterflow virtual impactor technique Leibniz Institut für Troposphärenforschung Permoserstrasse 15 D-04318 Leipzig, Germany
Karlsruhe Institute of Technology (KIT) Institute of Meteorology and Climate Research Karlsruhe, Germany	Germany	GipfelHolo instrument taking part in the CLACE 2013 / INUIT projects Institute for Atmospheric Physics University of Mainz Becherweg 21 D-55131 Mainz, Germany
Karlsruhe Institute of Technology (KIT) Institute of Meteorology and Climate Research Karlsruhe, Germany	Germany	Single-particle composition of ice nuclei and ice residuals: comparison of different measurement techniques – part of the Ice Nuclei Research Unit (INUIT) Technische Universität Darmstadt Institut für Angewandte Geowissenschaften Schnittspahnstrasse 9 D-64287 Darmstadt, Germany
Karlsruhe Institute of Technology (KIT) Institute of Meteorology and Climate Research Karlsruhe, Germany	Germany	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany

Institution / network	Country	Collaborating with project:
Leibniz Institut für Troposphärenforschung D-04318 Leipzig Deutschland	Germany	Single-particle composition of ice nuclei and ice residuals: comparison of different measurement techniques – part of the Ice Nuclei Research Unit (INUIT) Technische Universität Darmstadt Institut für Angewandte Geowissenschaften Schnittspahnstrasse 9 D-64287 Darmstadt, Germany
Leibniz Institut für Troposphärenforschung D-04318 Leipzig Deutschland	Germany	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
Leibniz Institut für Troposphärenforschung Dr. S. Mertes Prof. A. Wiedensohler Dr. T. Müller D-04318 Leipzig Deutschland	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Leibniz Institut für Troposphärenforschung D-04318 Leipzig Deutschland	Germany	Measurement of ice particles in mixed phase clouds during CLACE 2013 at Jungfraujoch Karlsruhe Institute of Technology Institute for Meteorology and Climate Research IMK-AAF Hermann-von-Helmholtz-Platz 1 D-76344 Eggenstein-Leopoldshafen Germany
Leibniz Institut für Troposphärenforschung D-04318 Leipzig Deutschland	Germany	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
Max-Planck Institute for Biogeochemistry Hans Knöll Str. 10 D-007745 Jena Deutschland	Germany	Continuous measurement of stable CO ₂ isotopes at Jungfraujoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf

Institution / network	Country	Collaborating with project:
Max-Planck Institute Mainz, Germany Dr. Jacob Fugal	Germany	Field measurements of atmospheric ice nuclei and properties of mixed phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstr. 16 CH-8092 Zürich, Switzerland
Max-Planck Institute for Chemistry Mainz, Germany	Germany	Composition analysis of ice particle residuals and ice nuclei combining aerosol mass spectrometry and counterflow virtual impactor technique Leibniz Institut für Troposphärenforschung Permoserstrasse 15 D-04318 Leipzig, Germany
Max-Planck Institute for Chemistry Mainz, Germany	Germany	Investigation of single particles and ice nuclei for aerosol research at Jungfraujoch University of Giessen Analytical Chemistry Schubertstrasse 60, Bldg. 16 D-35392 Giessen, Germany
Max-Planck Institute for Chemistry Particle Chemistry Department Mainz, Germany	Germany	Single-particle composition of ice nuclei and ice residuals: comparison of different measurement techniques – part of the Ice Nuclei Research Unit (INUIT) Technische Universität Darmstadt Institut für Angewandte Geowissenschaften Schnittspahnstrasse 9 D-64287 Darmstadt, Germany
Max-Planck-Institut für Chemie Biogeochemistry Department Dr. U. Pöschl Mainz	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
SFC Energy AG Eugen-Sänger-Ring 7 D-85649 Brunthal	Germany	Performance of Methanol fuel cells in alpine environments Armasuisse Wissenschaft + Technologie Fachbereich Testcenter Feuerwerkerstrasse 39 CH-3602 Thun, Switzerland

Institution / network	Country	Collaborating with project:
Technische Universität Darmstadt Institut für Angewandte Geowissenschaften D-64287 Darmstadt	Germany	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
Technische Universität Darmstadt Institut für Angewandte Geowissenschaften D-64287 Darmstadt	Germany	Composition analysis of ice particle residuals and ice nuclei combining aerosol mass spectrometry and counterflow virtual impactor technique Leibniz Institut für Troposphärenforschung Permoserstrasse 15 D-04318 Leipzig, Germany
Technische Universität Darmstadt Institut für Angewandte Geowissenschaften D-64287 Darmstadt	Germany	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
University of Bielefeld Germany	Germany	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
University of Bielefeld Germany	Germany	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
University of Bonn Germany	Germany	Influences of the snowcover on thermal and mechanical processes in steep permafrost rockwalls WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland

Institution / network	Country	Collaborating with project:
Universität Darmstadt Institut für Mineralogie Prof. S. Weinbruch Darmstadt, Germany	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
University of Mainz Particle Chemistry Department Dr. J. Schneider Prof. S. Borrmann Mainz, Germany	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
ACE-FTS science team http://www.ace.uwaterloo.ca/participants.html /	International network	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium
AGAGE (Advanced Global Atmospheric Gases Experiment)	International network	Halogenated Greenhouse Gases at Jungfrauoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf, Switzerland
Both the UV-Vis and FTIR observations contribute to the international Network for the Detection of Atmospheric Composition Changes (NDACC)	International network	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
Global Atmosphere Watch (GAW)	International network	National Air Pollution Monitoring Network (NABEL) Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf, Switzerland

Institution / network	Country	Collaborating with project:
Global Atmosphere Watch (GAW)	International network	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf, Switzerland
Collaboration with the OMI, ACE and MetOp GOME-2 and IASI satellite communities	International networks	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
International Council of the Scientific Union's (ICSU) Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)	International network	Neutron monitors - Study of solar and galactic cosmic rays Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
NASA Langley Research Center http://www.nasa.gov/centers/langley/home/index.html /	International network	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium
NDACC (Network for the Detection of Atmospheric Composition Change, http://www.ndacc.org/) /	International network	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium
Radiation data submitted to the World Radiation Data Centre (WRDC, St. Petersburg, Russian Federation) within the framework of the Global Atmosphere Watch	International network	Global Atmosphere Watch Radiation Measurements Federal Office of Meteorology and climatology MeteoSwiss Station Aérologique Ch. de l'Aérologie CH-1530 Payerne

Institution / network	Country	Collaborating with project:
Satellite experiments: IASI ((Infrared Atmospheric Sounding Interferometer)), AURA, OMI, ENVISAT	International network	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium
World Data Centers A (Boulder), B (Moscow), C (Japan), International GLE database	International network	Neutron monitors - Study of solar and galactic cosmic rays Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
World Meteorological Organization (WMO)	International network	Halogenated greenhouse gases at Jungfrauoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Nagoya University Solar Terrestrial Environment Laboratory Prof. Y. Matsubara Prof. Y. Muraki Dr. T. Sako Dr. S. Masuda Nagoya 464-8601, Japan	Japan	SONTEL - Solar Neutron Telescope for the identification and the study of high-energy neutrons produced in energetic eruptions at the Sun Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
Omnisys Instruments AB Anders Emrich Göteborg, Sweden	Sweden	Atmospheric observations with STEAMR / PREMIER receiver prototypes Universität Bern Institut für Angewandte Physik Sidlerstrasse 5 CH-3012 Bern, Switzerland
Aerosol Consulting ML Dr. M. Laborde Ennetbaden, Switzerland	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
Alpes Lasers SA 1-3 Max.-de-Meuron C.P. 1766 CH-2001 Neuchâtel	Switzerland	Continuous measurement of stable CO ₂ isotopes at Jungfrauoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
BeSiC – Berner Simulations- und CPR Zentrum CH-3010 Bern	Switzerland	Intubation success rate of different intubation aids under extreme daylight conditions in high altitude Inselspital Bern Institut für Anästhesiologie und Schmerztherapie CH-3010 Bern
Brenet Nationales Kompetenznetzwerk Gebäudetechnik und Erneuerbare Energien CH-4438 Langenbruck	Switzerland	PV production in high alpine sites Berner Fachhochschule Technik und Informatik PV-Labor Jlcoweg 1 CH-3400 Burgdorf
Bundesamt für Umwelt (BAFU)/ Federal Office for the Environment (FOEN)	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
Bundesamt für Umwelt (BAFU)/ Federal Office for the Environment (FOEN) Dr. Hugo Raetzo Bern, Switzerland	Switzerland	PermaSense ETH Zürich Computer Engineering and Networks Laboratory (TIK) Gloriastrasse 35 CH-8092 Zürich
Bundesamt für Umwelt (BAFU)/ Federal Office for the Environment (FOEN)	Switzerland	Halogenated greenhouse gases at Jungfrauoch Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf

Institution / network	Country	Collaborating with project:
Burgergemeinde Zermatt Bahnhofstrasse 53 CH-3920 Zermatt	Switzerland	Stellarium Gornergrat Centre for Space and Habitability Universität Bern Sidlerstrasse 5 CH-3012 Bern
Difficult Airway Research Collaboration www.darc-airway.com	Switzerland	Intubation success rate of different intubation aids under extreme daylight conditions in high altitude Inselspital Bern Institut für Anästhesiologie und Schmerztherapie CH-3010 Bern
Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf	Switzerland	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf	Switzerland	High precision carbon dioxide and oxygen measurements at Jungfrauoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
Empa Laboratory for Air Pollution/Environmental Technology Dr. C. Hüglin Dr. S. Reimann Ueberlandstrasse 129 CH-8600 Dübendorf	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf	Switzerland	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium

Institution / network	Country	Collaborating with project:
Empa Laboratory for Air Pollution/Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf	Switzerland	Measurement of biological particles during desert dust events Karlsruhe Institute of Technology Institute for Meteorology and Climate Research IMK-AAF Hermann-von-Helmholtz-Platz 1 D-76344 Eggenstein-Leopoldshafen Germany
Empa NABEL + Group for climate gases Laboratory for Air Pollution/Environmental Technology CH-8600 Dübendorf	Switzerland	Biological ice nucleators at tropospheric cloud height University of Basel Institute for Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
ETH Zürich Swiss Federal Institute of Technology Computer Engineering and Networks Laboratory Dr. Jan Beutel Gloriastrasse 35 CH-8092 Zurich	Switzerland	Influences of the snowcover on thermal and mechanical processes in steep permafrost rockwalls WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
ETH Zürich Swiss Federal Institute of Technology Institute for Quantum Electronics Wolfgang-Pauli-Str.16 CH-8093 Zurich	Switzerland	Continuous measurement of stable CO ₂ isotopes at Jungfrauoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Prof. U. Lohmann Prof. J. Stähelin Prof. T. Peter Universitätstrasse 16 CH-8092 Zürich	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Universitätstrasse 16 CH-8092 Zürich	Switzerland	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany

Institution / network	Country	Collaborating with project:
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Universitätstrasse 16 CH-8092 Zürich	Switzerland	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Universitätstrasse 16 CH-8092 Zürich	Switzerland	GipfelHolo instrument taking part in the CLACE 2013 / INUIT projects Institute for Atmospheric Physics University of Mainz Becherweg 21 D-55131 Mainz, Germany
ETH Zürich Swiss Federal Institute of Technology Institute of Plant, Animal and Agroecosystem Sciences Dr. W. Eugster	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Institut für Aerosol- und Sensortechnik, Fachhochschule Nordwestschweiz, Windisch Prof. H. Burtscher Dr. M. Fierz	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
KWO Kraftwerke Oberhasli AG CH-3862 Innertkirchen	Switzerland	PV production in high alpine sites Berner Fachhochschule Technik und Informatik PV-Labor Jlcoweg 1 CH-3400 Burgdorf
MeteoSwiss	Switzerland	Assessment of high altitude aerosol and cloud characteristics by remote sensing techniques Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich, Switzerland

Institution / network	Country	Collaborating with project:
MeteoSwiss	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
MeteoSwiss	Switzerland	Cloud Climatology and Surface Radiative Forcing over Switzerland (CLASS). Comprehensive Radiation Flux Assessment (CRUX) Physikalisch-Meteorologisches Observatorium Davos PMOD World Radiation Center WRC Dorfstrasse 33 CH-7260 Davos Dorf
MeteoSwiss, Payerne Office fédéral de météorologie et de climatologie MétéoSuisse Station Aérologique ch. de l'Aérologie CH-1530 Payerne Dr. D. Ruffieux	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Omnisight GmbH Balz-Zimmermann-Strasse 34 CH-8058 Zürich Flughafen	Switzerland	Performance of Methanol fuel cells in alpine environments Armasuisse Wissenschaft + Technologie Fachbereich Testcenter Feuerwerkerstrasse 39 CH-3602 Thun, Switzerland
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Quantifying mountain venting of boundary layer air through Rn-222 measurements University of Basel Institute for Environmental Sciences Bernoullistrasse 30 CH-4056 Basel

Institution / network	Country	Collaborating with project:
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Assessment of high altitude aerosol and cloud characteristics by remote sensing techniques Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich, Switzerland
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Field measurements of atmospheric ice nuclei and properties of mixed phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstr. 16 CH-8092 Zürich, Switzerland
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Biological ice nucleators at tropospheric cloud height University of Basel Institute for Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Measurement of ice particles in mixed phase clouds during CLACE 2013 at Jungfraujoeh Karlsruhe Institute of Technology Institute for Meteorology and Climate Research IMK-AAF Hermann-von-Helmholtz-Platz 1 D-76344 Eggenstein-Leopoldshafen Germany

Institution / network	Country	Collaborating with project:
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Measurement of biological particles during desert dust events Karlsruhe Institute of Technology Institute for Meteorology and Climate Research IMK-AAF Hermann-von-Helmholtz-Platz 1 D-76344 Eggenstein-Leopoldshafen Germany
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Composition analysis of ice particle residuals and ice nuclei combining aerosol mass spectrometry and counterflow virtual impactor technique Leibniz Institut für Troposphärenforschung Permoserstrasse 15 D-04318 Leipzig, Germany
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Single-particle composition of ice nuclei and ice residuals: comparison of different measurement techniques – part of the Ice Nuclei Research Unit (INUIT) Technische Universität Darmstadt Institut für Angewandte Geowissenschaften Schnittspahnstrasse 9 D-64287 Darmstadt, Germany
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Investigation of single particles and ice nuclei for aerosol research at Jungfraujoch University of Giessen Analytical Chemistry Schubertstrasse 60, Bldg. 16 D-35392 Giessen, Germany
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Study on atmospheric nucleation and the precursor gases in free troposphere University of Helsinki Department of Physics P.O. Box 64 Fi-00014 Helsinki, Finland
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany

Institution / network	Country	Collaborating with project:
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Study of new particle formation in the free troposphere (NUCLACE-2013) Goethe University Frankfurt am M. Institute for Atmospheric and Environmental Sciences Altenhoferallee 1 D-60438 Frankfurt am Main, Germany
PermaSense Network www.permasense.ch	Switzerland	Influences of the snowcover on thermal and mechanical processes in steep permafrost rockwalls WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
PERMOS (Permafrost Monitoring Switzerland) http://www.permos.ch/ Dr. Jeannette Nötzli	Switzerland	PermaSense ETH Zürich Computer Engineering and Networks Laboratory (TIK) Gloriastrasse 35 CH-8092 Zürich
PERMOS (Permafrost Monitoring Switzerland) http://www.permos.ch/	Switzerland	Influences of the snowcover on thermal and mechanical processes in steep permafrost rockwalls WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
Physikalisch-Meteorologisches Observatorium Davos PMOD World Radiation Center WRC Dr. Julian Gröbner Davos Switzerland	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Studiengesellschaft Mont Soleil	Switzerland	PV production in high alpine sites Bernern Fachhochschule Technik und Informatik, PV-Labor Jlcoweg 1 CH-3400 Burgdorf

Institution / network	Country	Collaborating with project:
Study of solar photometry (aerosol optical depth) and longwave infrared radiative forcing in collaboration with the Physikalisch Meteorologisches Observatorium Davos (PMOD), World Radiation Center (WRC) Dorfstrasse 33 CH-7260 Davos Dorf	Switzerland	Global Atmosphere Watch Radiation Measurements Federal Office of Meteorology and climatology MeteoSwiss Station Aérologique Ch. de l'Aérologie CH-1530 Payerne
SUPSI	Switzerland	PV production in high alpine sites Berner Fachhochschule Technik und Informatik PV-Labor Jlcoweg 1 CH-3400 Burgdorf
SUVA Clinique romande de réadaptation CRR CH-1951 Sion	Switzerland	Performance and physiological responses in acute hypoxia: normobaric vs. hypobaric hypoxia Institute of Sport Sciences, ISSUL University of Lausanne Bâtiment Geopolis, Quartier Mouline CH-1015 Lausanne
Swiss GCOS office http://www.proclim.ch/4dcgi/proclim/all/News?33566	Switzerland	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Klima- und Umwelphysik Sidlerstrasse 5 CH-3012 Bern
Swiss Glacier Monitoring Network, Federal Office for the Environment (BAFU)	Switzerland	Glaciological investigations on the Grosser Aletschgletscher Swiss Federal Office of Technology, ETH Zürich Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) Wolfgang-Pauli-Strasse 27 CH-8093 Zürich
Tofwerk AG CH-3600 Thun	Switzerland	Highly time resolved chemical composition measurements of non-refractory PM1 with a ToF-ACSM Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
Universität Basel Institut für Umweltgeowissenschaften Dr. Franz Conen Bernoullistrasse 30 CH-4056 Basel	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
University of Bern CH-3012 Bern	Switzerland	Intubation success rate of different intubation aids under extreme daylight conditions in high altitude Inselspital Bern Institut für Anästhesiologie und Schmerztherapie CH-3010 Bern
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Laboratory for Air Pollution & Environmental Technology Ueberlandstrasse 129 CH-8600 Duebendorf
University of Bern Physics Institute Climate and Environmental Physics Prof. M. Leuenberger Sidlerstrasse 5 CH-3012 Bern	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	Continuous measurement of stable CO ₂ isotopes at Jungfrauoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Universität Bern Physikalisches Institut Klima- und Umweltphysik Dr. Roland Purtschert Sidlerstrasse 5 CH-3012 Bern	Switzerland	85Kr Activity Determination in Tropospheric Air Bundesamt für Strahlenschutz Rosastrasse 9 D-79098 Freiburg

Institution / network	Country	Collaborating with project:
Universität Fribourg Departement für Geowissenschaften Prof. Dr. B. Grobéty Chemin du Musée 6 CH-1700 Fribourg	Switzerland	The Global Atmosphere Watch Aerosol Program at the Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Universität Fribourg Department of Geosciences Prof. Martin Hoelzle Chemin du Musée 6 CH-1700 Fribourg	Switzerland	Influences of the snowcover on thermal and mechanical processes in steep permafrost rockwalls WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
Université de Genève Département de Biologie, végétale Dr. Joceline Favet	Switzerland	Transport and survival of desert soil- and rock surface inhabiting micro-organisms in atmospheric mineral dust Universität Bern Institut für Veterinär Bakteriologie Länggassstrasse 122 CH-3012 Bern
University of Geneva Geneva Observatory Astronomy Department Prof. Didier Queloz 51, Chemin des Maillettes CH-1290 Sauverny	Switzerland	Stellarium Gornergrat Centre for Space and Habitability University of Bern Sidlerstrasse 5 CH-3012 Bern
University of Geneva	Switzerland	Performance and physiological responses in acute hypoxia: normobaric vs. hypobaric hypoxia Institute of Sport Sciences, ISSUL University of Lausanne Bâtiment Geopolis, Quartier Mouline CH-1015 Lausanne
University of Zurich Department of Geography Glaciology, Geomorphodynamics & Geochronology Winterthurerstr. 190 CH-8057 Zürich, Switzerland	Switzerland	Influences of the snowcover on thermal and mechanical processes in steep permafrost rockwalls WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland

Institution / network	Country	Collaborating with project:
WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf Dr. Marcia Phillips	Switzerland	PermaSense ETH Zürich Computer Engineering and Networks Laboratory (TIK) Gloriastrasse 35 CH-8092 Zürich
Abant Izzet Baysal University Department of Physics Experimental Nuclear and High Energy Group Prof. Dr. Haluk Denizli Bolu / Turkey	Turkey	Test of a prototype for a new concept of an EAS detector University of Rome La Sapienza Departement of Physics P.zza A. Moro 5 I-00198 Rome
University of Leeds School of Earth and Environment Collaboration with Martin Chipperfield Leeds, LS2 9JT United Kingdom http://www.see.leeds.ac.uk/people/m.chipperfield	UK	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
University of Leeds	UK	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium
University of Manchester School of Earth, Atmospheric and Environmental Sciences (SEAES) Prof. H. Coe Prof. T. Choularton Manchester, UK	UK	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
University of Manchester Centre for Atmospheric Science SEAES University of Manchester Manchester, UK	UK	Composition analysis of ice particle residuals combining aerosol mass spectrometry and counterflow virtual impactor technique Max Planck Institute for Chemistry Particle Chemistry Department Hahn-Meitner-Weg 1 D-55128 Mainz, Germany

Institution / network	Country	Collaborating with project:
University of Manchester Centre for Atmospheric Science SEAES University of Manchester Manchester, UK	UK	Field measurements of atmospheric ice nuclei and properties of mixed phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstr. 16 CH-8092 Zürich, Switzerland
University of Manchester Centre for Atmospheric Science SEAES University of Manchester Manchester, UK	UK	Composition analysis of ice particle residuals and ice nuclei combining aerosol mass spectrometry and counterflow virtual impactor technique Leibniz Institut für Troposphärenforschung Permoserstrasse 15 D-04318 Leipzig, Germany
University of Manchester Centre for Atmospheric Science SEAES University of Manchester Manchester, UK	UK	GipfelHolo instrument taking part in the CLACE 2013 / INUIT projects Institute for Atmospheric Physics University of Mainz Becherweg 21 D-55131 Mainz, Germany
University of Manchester Centre for Atmospheric Science SEAES University of Manchester Manchester, UK	UK	Online and offline characterization of cloud condensation nuclei and ice residuals Max Planck Institut für Chemie Multiphasenchemie Hahn-Meitner-Weg 1 D-55128 Mainz, Germany
STFC Rutherford Appleton Laboratory Simon Rea Didcot, Oxfordshire UK	UK	Atmospheric observations with STEAMR / PREMIER receiver prototypes Universität Bern Institut für Angewandte Physik Sidlerstrasse 5 CH-3012 Bern, Switzerland
Aerodyne Research Inc. Billerica MA-01821 USA	USA	Highly time resolved chemical composition measurements of non-refractory PM1 with a ToF-ACSM Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
Carnegie Mellon University Dept. of Physics Prof. James Russ 5000 Forbes Ave. Pittsburgh, PA 15213 USA	USA	Test of a prototype for a new concept of an EAS detector University of Rome La Sapienza Departement of Physics P.zza A. Moro 5 I-00198 Rome
NASA JPL	USA	High resolution, solar infrared Fourier Transform spectrometry. Application to the study of the Earth atmosphere University of Liège Dept. of Astrophysics, Geophysics & Oceanology Allée du six Août, 17 - Bâtiment B5a B-4000 Liège, Belgium