

Collaborations and networks

Institutions collaborating with research projects at Jungfraujoch and Gornergrat in 2015:

Institution / network	Country	Collaborating with project:
Australian Nuclear Science and Technology Organisation (ANSTO) Sydney Australia	Australia	Baseline characterization of air masses using radon-222 Department of Environmental Sciences University of Basel Bernoullistrasse 30 CH-4056 Basel
Ecotech Pty Ltd G. Kassell and Dr. M. Laborde	Australia	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
CSIRO Marine and Atmospheric Research Paul Krummel, Ray Langenfelds, Paul Steele Aspendale Australia	Australia	Isotopic composition of N ₂ O at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
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, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)
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
ACTRIS (Aerosol, Clouds and Trace Gases Research Network)	European network	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution / Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
ACTRIS (Aerosol, Clouds and Trace Gases Research Network)	European network	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf
Collaboration with S&T for the NORS and QA4ECV Validation Server	European network	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
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
EMEP (European Monitoring and Evaluation Programme)	European network	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf

Institution / network	Country	Collaborating with project:
European FP7 Project Real-Time Database for High Resolution Neutron Monitor Measurements (NMDB) http://www.nmdb.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 University of Liège Institut d'Astrophysique et de Géophysique Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)
ICOS Integrated Carbon Observation System http://www.icos-ri.eu	European network	Long-term observations of $^{14}\text{CO}_2$ at Jungfraujoch Universität Heidelberg Institut für Umweltphysik Im Neuenheimer Feld 229 D-69120 Heidelberg
ICOS Integrated Carbon Observation System http://www.icos-ri.eu	European network	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf
ICOS Integrated Carbon Observation System https://www.icos-ri.eu/	European network	Continuous measurement of stable CO_2 isotopes at Jungfraujoch, Switzerland Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf
ICOS Integrated Carbon Observation System partners https://www.icos-ri.eu/	European network	Flask comparison on Jungfraujoch Centre for Isotope Research — Energy and Sustainability Research Institute Groningen, University of Groningen Nijenborgh 4 9747 AG Groningen / The Netherlands
ICOS Integrated Carbon Observation System partners https://www.icos-ri.eu/	European network	Flask comparison on Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena

Institution / network	Country	Collaborating with project:
ICOS Integrated Carbon Observation System partners https://www.icos-ri.eu/	European network	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
InGOS (Integrated non-CO ₂ Greenhouse gas Observing System)	European network	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution/ Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
InGOS (Integrated non-CO ₂ Greenhouse gas Observation System)	European network	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Überlandstrasse 129 CH-8600 Dübendorf
University of Helsinki Department of Physics Prof. M. Kulmala Helsinki, Finland	Finland	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Alstom Transportation	France	Test for an improved speed sensor for railway ETCS application HASLERRail AG Freiburgstrasse 251 CH-3018 Bern
INRA (Institut national de la recherche agronomique) Pathologie vegetale Montfavet France	France	Biological ice nucleators at tropospheric cloud height University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Laboratoire des Sciences du Climat et de l'Environnement LSCE	France	System and performance audit for the Jungfraujoch ICOS atmospheric station Finnish Meteorological Institute P.O. Box 503 F-00101 Helsinki Finland

Institution / network	Country	Collaborating with project:
LATMOS France (SAOZ) F. Goutail, J.-P. Pommerau, A. Pazmino	France	Atmospheric physics and chemistry Belgian Institute for Space Aeronomy Ringlaan 3 B-1180 Brussels Belgium
National Meteorological Research Center CNRM-GAME Dr. G. Roberts Dr. T. Bourrienne Toulouse, France	France	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
ECAC and TROPOS Dr. A. Wiedensohler Leipzig, Germany	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Department of Sports Medicine University Hospital Heidelberg	Germany	Effects of remote preconditioning on severity and incidence of acute mountain sickness at 3450 m Department of Anesthesiology University Hospital Salzburg Paracelsus Medical University Müllner Hauptstrasse 48 A-5020 Salzburg Austria
IMK (Forschungszentrum Karlsruhe)	Germany	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, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)
Institute of Atmospheric Physics, DLR Dr. A. Petzold Oberpfaffenhofen, Germany	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen 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 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 Dr. Martin Schnaiter Dr. Corinna Hoose Karlsruhe, Germany	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Leibniz Institut für Troposphärenforschung Dr. S. Mertes Prof. A. Wiedensohler D-04318 Leipzig Deutschland	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Max-Planck Institute for Biogeochemistry Hans Knöll Str. 10 D-007745 Jena Germany	Germany	Continuous measurement of stable CO ₂ isotopes at Jungfraujoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Max-Planck-Institut für Chemie Biogeochemistry Department Dr. U. Pöschl Mainz	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Max-Planck-Institut für Biogeochemie Jena	Germany	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
Max-Planck-Institut für Chemie Particle Chemistry Department Dr. J. Schneider Prof. S. Borrmann Mainz	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
Max-Planck-Institute Mainz, Germany Dr. Jacob Fugal	Germany	Field measurements of aerosols acting as ice nucleating particles and their influence on mixed-phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstr. 16 CH-8092 Zürich Switzerland
Max-Planck-Institut für Biogeochemie Jena	Germany	Flask comparison on Jungfraujoch Centre for Isotope Research — Energy and Sustainability Research Institute Groningen, University of Groningen Nijenborgh 4 9747 AG Groningen The Netherlands
Max-Planck-Institut für Biogeochemie Jena	Germany	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
SFC Energy AG Eugen-Sänger-Ring 7 D-85649 Brunenthal	Germany	Performance of Methanol fuel cells in alpine environments armasuisse S+T Test Centre Feuerwerkerstrasse 39 CH-3602 Thun Switzerland
University of Bonn Germany	Germany	Influences of the snowcover on thermal processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf Switzerland
Universität Darmstadt Institut für Mineralogie Prof. S. Weinbruch Darmstadt, Germany	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
University of Munich Germany	Germany	Influences of the snowcover on thermal processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, 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 Institut d'Astrophysique et de Géophysique Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (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
Global Atmosphere Watch (GAW)	International network	Halogenated greenhouse gases at Jungfrauoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf, Switzerland
Globalview	International networks	High precision carbon dioxide and oxygen measurements at Jungfrauoch Universität Bern, Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern

Institution / network	Country	Collaborating with project:
Collaboration with the OMI, TROPOMI, 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
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 Institut d'Astrophysique et de Géophysique Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)
Obspack	International network	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
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 1 CH-1530 Payerne
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 Institut d'Astrophysique et de Géophysique Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)
World Meteorological Organization (WMO)	International network	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf

Institution / network	Country	Collaborating with project:
Hebrew University of Jerusalem Assaf Zipori	Israel	Field measurements of aerosols acting as ice nucleating particles and their influence on mixed-phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich, Switzerland
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
Nagoya University	Japan	Development and scientific application of nuclear emulsion particle detectors to geological problems in 3D Institute of Geological Sciences University of Bern Baltzerstrasse 1+3 CH-3012 Bern and Laboratory for High Energy Physics University of Bern Sidlerstrasse 5 CH-3012 Bern
Korea Polar Research Institute KOPRI	Korea	Halogenated greenhouse gases at Jungfrauoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Aerosol d.o.o. Grisa Mocnik and Int. Postgraduate School Jozef Stefan Ljubljana, Slovenia	Slovenia	The Global Atmosphere Watch Aerosol Program at Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen, Switzerland
Aerosol Consulting ML Ennetbaden, Switzerland	Switzerland	The Global Atmosphere Watch Aerosol Program at 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
Astronomical Institute of the University of Bern (AIUB) Sidlerstrasse 5 CH-3012 Bern	Switzerland	Stellarium Gornergrat Center for Space and Habitability University of Bern Parkterrasse 14 CH-3012 Bern
Bundesamt für Umwelt (BAFU)/ Federal Office for the Environment (FOEN)	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Ueberlandstrasse 129 CH-8600 Dübendorf
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
Burgergemeinde Zermatt Bahnhofstrasse 53 CH-3920 Zermatt	Switzerland	Stellarium Gornergrat Center for Space and Habitability Universität Bern Parkterrasse 14 CH-3012 Bern
Empa B. Buchmann, D. Brunner, S. Henne, S. Reimann, M. Steinbacher 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

Institution / network	Country	Collaborating with project:
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 Institut d'Astrophysique et de Géophysique Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)
Empa NABEL Laboratory for Air Pollution/Environmental Technology CH-8600 Dübendorf	Switzerland	Biological ice nucleators at tropospheric cloud height University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Empa Laboratory for Air Pollution/Environmental Technology Dr. C. Hüglin, Dr. S. Henne, Dr. S. Reimann, Dr. M. Steinbacher Ueberlandstrasse 129 CH-8600 Dübendorf	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Empa Laboratory for Air Pollution/Environmental Technology Dr. Stephan Henne Überlandstrasse 129 CH-8600 Dübendorf	Switzerland	SwissQuick: Emissions and imissions of atmospheric mercury in Switzerland Institute for Chemical and Bioengineering ETH Zürich Vladimir-Prelog-Weg 1 CH-8093 Zürich
Empa Laboratory for Air Pollution/Environmental Technology CH-8600 Dübendorf	Switzerland	Baseline characterization of air masses using radon-222 University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Empa Laboratory for Air Pollution/Environmental Technology CH-8600 Dübendorf	Switzerland	System and performance audit for the Jungfraujoch ICOS atmospheric station Finnish Meteorological Institute P.O. Box 503 F-00101 Helsinki Finland

Institution / network	Country	Collaborating with project:
Empa Laboratory for Air Pollution/Environmental Technology Dr. Martin Steinbacher Dr. Stephan Henne CH-8600 Dübendorf	Switzerland	Field measurements of aerosols acting as ice nucleating particles and their influence on mixed-phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich, Switzerland
Esotec Energietechnik GmbH Gewerbestrasse 8 CH-3862 Innertkirchen	Switzerland	Performance of Methanol fuel cells in alpine environments armasuisse S+T Test Centre Feuerwerkerstrasse 39 CH-3602 Thun, Switzerland
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 processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Prof. U. Lohmann Prof. T. Peter Universitätstrasse 16 CH-8092 Zürich	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfrauoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Yvonne Boose Larissa Lacher Universitätstrasse 16 CH-8092 Zürich	Switzerland	Interactions between aerosols and rain clouds as a function of aerosol type and source The Institute of Earth Science Hebrew University of Jerusalem Edmond J. Safra Campus, Givat-Ram Jerusalem, 91904 Israel

Institution / network	Country	Collaborating with project:
Institut für Aerosol- und Sensortechnik, Fachhochschule Nordwestschweiz, Windisch Prof. H. Burtscher Dr. E. Weingartner Dr. M. Fierz	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfrauoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
3100 Kulmhotel Gornergrat Gornergrat 3100m CH-3920 Zermatt	Switzerland	Stellarium Gornergrat Center for Space and Habitability University of Bern Parkterrasse 14 CH-3012 Bern
KWO Kraftwerke Oberhasli AG CH-3862 Innertkirchen	Switzerland	Long-term study on the efficiency of photovoltaic installations at high altitudes Bern University of Applied Sciences BFH, Engineering and Information Technology, Photovoltaic Laboratory Jlcoweg 1 CH-3400 Burgdorf
MeteoSwiss	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Ueberlandstrasse 129 CH-8600 Dübendorf
MeteoSwiss	Switzerland	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 Dr. D. Ruffieux ch. de l'Aérologie CH-1530 Payerne	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfrauoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen, Switzerland

Institution / network	Country	Collaborating with project:
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Biological ice nucleators at tropospheric cloud height University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Baseline characterization of air masses using radon-222 University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Assessment of high altitude aerosol and cloud characteristics, cirrus climatology 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 Prof. Urs Baltensperger Dr. Erik Herrmann Dr. Nicolas Bukowiecki CH-5232 Villigen Switzerland	Switzerland	Field measurements of aerosols acting as ice nucleating particles and their influence on 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	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and Technology Ueberlandstrasse 129 CH-8600 Dübendorf
PermaSense Network www.permasense.ch	Switzerland	Influences of the snowcover on thermal processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland

Institution / network	Country	Collaborating with project:
PermaSense Network ETH Zürich Computer Engineering and Networks Laboratory (TIK) Gloriastrasse 35 CH-8092 Zürich	Switzerland	Swiss Permafrost Monitoring Network PERMOS University of Zürich Department of Geography Winterthurerstrasse 190 CH-8057 Zürich
PERMOS (Permafrost Monitoring Switzerland) http://www.permos.ch/	Switzerland	Influences of the snowcover on thermal processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
SBB – Schweizerische Bundesbahnen	Switzerland	Test for an improved speed sensor for railway ETCS application HASLERRail AG Freiburgstrasse 251 CH-3018 Bern
Studiengesellschaft Mont Soleil Les Brenet	Switzerland	Long-term study on the efficiency of photovoltaic installations at high altitudes Bern University of Applied Sciences BFH, Engineering and Information Technology, Photovoltaic Laboratory Jlcoweg 1 CH-3400 Burgdorf
Study of solar photometry (aerosol optical depth) and long-wave 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 1 Ch. de l'Aérologie CH-1530 Payerne
SUPSI Lugano	Switzerland	Long-term study on the efficiency of photovoltaic installations at high altitudes Bern University of Applied Sciences BFH, Engineering and Information Technology, Photovoltaic Laboratory Jlcoweg 1 CH-3400 Burgdorf

Institution / network	Country	Collaborating with project:
Swiss Federal Office for the Environment (FOEN)	Switzerland	SwissQuick: Emissions and imissions of atmospheric mercury in Switzerland Institute for Chemical and Bioengineering ETH Zürich Vladimir-Prelog-Weg 1 CH-8093 Zürich
Swiss GCOS office	Switzerland	High precision carbon dioxide and oxygen measurements at Jungfrauoch Universität Bern Physikalisches Institut Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
Swiss Glacier Monitoring Network (GLAMOS) http://www.glamos.ch	Switzerland	Glaciological investigations on the Grosser Aletschgletscher ETH Zürich Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) Hönggerbergring 26 CH-8093 Zürich
Swiss National Air Pollution Monitoring Network (NABEL)	Switzerland	Isotopic composition of N ₂ O at Jungfrauoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Tofwerk AG Dr. M. Hutterli Thun, Switzerland	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
Universität Basel Institut für Umweltgeowissenschaften Dr. Franz Conen Bernoullistrasse 30 CH-4056 Basel	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfrauoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
University of Bern	Switzerland	Long-term study on the efficiency of photovoltaic installations at high altitudes Bern University of Applied Sciences BFH, Engineering and Information Technology, Photovoltaic Laboratory Jlcoweg 1 CH-3400 Burgdorf
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	National Air Pollution Monitoring Network (NABEL) Empa Swiss Federal Laboratories for Materials Science and 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 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
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	Flask comparison on Jungfrauoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	Flask comparison on Jungfrauoch Centre for Isotope Research — Energy and Sustainability Research Institute Groningen, University of Groningen Nijenborgh 4 9747 AG Groningen The Netherlands
Universität Bern Physikalisches Institut Klima- und Umwelphysik 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 Department of Geosciences Prof. Martin Hoelzle Chemin du Musée 6 CH-1700 Fribourg	Switzerland	Influences of the snowcover on thermal processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
University of Geneva Geneva Observatory Astronomy Department 51, Chemin des Maillettes CH-1290 Sauverny	Switzerland	Stellarium Gornergrat Center for Space and Habitability University of Bern Parkterrasse 14 CH-3012 Bern
University of Zurich Department of Geography Glaciology, Geomorphodynamics & Geochronology Winterthurerstr. 190 CH-8057 Zürich, Switzerland	Switzerland	Influences of the snowcover on thermal processes in steep permafrost rockwalls Long-term permafrost monitoring WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf Dr. Marcia Phillips	Switzerland	Swiss Permafrost Monitoring Network PERMOS University of Zürich Department of Geography Winterthurerstrasse 190 CH-8057 Zürich
Centre for Isotope Research CIO Groningen, The Netherlands	The Netherlands	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Sidlerstrasse 5 CH-3012 Bern
Centre for Isotope Research CIO Groningen, The Netherlands	The Netherlands	Flask comparison on Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
Abant Izzet Baysal University Department of Physics Experimental Nuclear and High Energy Group Prof. Dr. Haluk Denizli Bolu / Turkey	Turkey	Test for a new concept of an EAS detector for UHE neutrinos University of Rome La Sapienza Departement of Physics Piazza A. Moro 5 I-00185 Rome

Institution / network	Country	Collaborating with project:
University of Bristol	UK	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution/ Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
University of Leeds School of Earth and Environment Collaboration with Martin Chipperfield Leeds, LS2 9JT United Kingdom	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 Institut d'Astrophysique et de Géophysique Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (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 Jungfraujoch Ice residual characterization during the Cloud and Aerosol Characterization Experiment (CLACE) Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland
University of Manchester Centre for Atmospheric Science SEAES Paul Connolly, Gary Lloyd and Tom Choularton Manchester, UK	UK	Field measurements of aerosols acting as ice nucleating particles and their influence on mixed-phase clouds Swiss Federal Office of Technology, ETH Zürich Institute for Atmospheric and Climate Science Universitätsstr. 16 CH-8092 Zürich, Switzerland
Aerodyne Research Dr. D. Worsnop	USA	The Global Atmosphere Watch Aerosol Program at Jungfraujoch 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 for a new concept of an EAS detector for UHE neutrinos University of Rome La Sapienza Departement of Physics Piazza A. Moro 5 I-00185 Rome
NASA JPL	USA	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, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège, Belgium)