Collaborations and networks

Institutions collaborating with research projects at Jungfraujoch and Gornergrat in 2019

Institution / network	Country	Collaborating with project:
Australian Nuclear Science and Technology Organisation (ANSTO) Dr. Alastair Williams, Dr. Alan Griffiths, Dr. Scott Chambers Sydney Australia	Australia	Baseline characterization of air masses using radon-222 Department of Environmental Sciences University of Basel Bernoullistrasse 30 CH-4056 Basel
CSIRO Marine and Atmospheric Research Paul Krummel, Ray Langenfelds, Paul Steele Aspendale Australia	Australia	The isotopic composition of atmospheric nitrous oxide observed at the high altitude research station Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
CSIRO Oceans and Atmosphere	Australia	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Belgian Institute for Space Aeronomy Brussels	Belgium	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
BIRA-IASB Royal Belgian Institute of Space Aeronomy Dr. M. De Mazière Dr. S. Chabrillat and teams Ukkel Belgium	Belgium	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora 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 Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels Belgium
Université de Liège Institut d'Astrophysique et de Géophysique and NDACC Partners B-4000 Sart Tilman (Liège)	Belgium	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels, Belgium
Université de Liège Institut d'Astrophysique et de Géophysique B-4000 Sart Tilman (Liège)	Belgium	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Université de Liège Institut d'Astrophysique et de Géophysique B-4000 Sart Tilman (Liège)	Belgium	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Université Libre de Bruxelles (ULB) Dr. B. Franco Bruxelles Belgium	Belgium	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
Peking University College of Environmental Sciences and Engineering Prof. Maosheng Yao Beijing	China	The diversity of bioaerosols in different environmental scenarios ETH Zürich Institute of Environmental Engineering Stefano-Franscini-Platz 5 CH-8093 Zürich
Prof. Min Gao Beijing Agro-Biotechnology Research Center Beijing Key Laboratory of Agricultural Genetic Resources and Biotechnology Beijing Academy of Agriculture and Forestry Sciences	China	The diversity of bioaerosols in different environmental scenarios ETH Zürich Institute of Environmental Engineering Stefano-Franscini-Platz 5 CH-8093 Zürich

Institution / network	Country	Collaborating with project:
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	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
ACTRIS (Aerosol, Clouds and Trace Gases Research Network)	European network	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
ACTRIS (Aerosol, Clouds and Trace Gases Research Network)	European network	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels, Belgium
Collaboration with KNMI and S&T for the CAMS and S5P MPC Validation Server	European network	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels, Belgium
Collaboration with CNR (Italy) and ECMWF for the delivery of NDACC data to the Climate Data Store	European network	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels, Belgium
E-GVAP II (EUMETNET GPS Water Vapour Programme)	European network	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern
EMEP (European Monitoring and Evaluation Programme)	European network	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
EMEP (European Monitoring and Evaluation Programme)	European network	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
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's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
GNSS4SWEC (COST EU project)	European network	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern
ICOS Integrated Carbon Observation System ICOS-RI partners and ICOS-CH partners https://www.icos-ri.eu	European network	Long-term observations of $^{14}CO_2$ at Jungfraujoch Universität Bern Physikalisches Institut Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
ICOS Integrated Carbon Observation System http://www.icos-ri.eu	European network	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
ICOS Integrated Carbon Observation System http://www.icos-ri.eu	European 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:
ICOS Integrated Carbon Observation System https://www.icos-ri.eu/	European network	Continuous measurement of stable CO2 isotopes at Jungfraujoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
ICOS Integrated Carbon Observation System ICOS-RI partners and ICOS-CH partners https://www.icos-ri.eu/	European network	Flask comparison on Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
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 Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
IG3IS (Integrated Global Greenhouse Gas Information System)	European network	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
RINGO (Readiness of ICOS for Necessities of integrated Global Observations)	European network	Continuous measurement of stable CO_2 isotopes at Jungfraujoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
RINGO (Readiness of ICOS for Necessities of integrated Global Observations)	European network	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
Uniarts Helsinki Prof. Mika Elo KuvA/Doctoral Programme	Finland	2°, an artistic research about the possibilities of seeing climate change Zürcher Hochschule der Künste Toni-Areal Pfingstweidstrasse 96 / Postfach CH-8031 Zürich Switzerland
University of Helsinki Department of Physics Prof. M. Kulmala, Prof. F. Bianchi Helsinki, Finland	Finland	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
LATMOS France (SAOZ) F. Goutail, J.-P. Pommerau, A. Pazmino	France	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels Belgium
ECAC and TROPOS Prof. A. Wiedensohler Dr. T. Müller Dr. S. Henning Leipzig, Germany	Germany	The Global Atmosphere Watch Aerosol Program at the Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
Heidelberg University Institute of Environmental Physics Dr. S. Hammer	Germany	Radiocarbon measurements of atmospheric methane Department of Chemistry and Biochemistry University of Bern Freiestrasse 3 CH-3012 Bern
Institute of Meteorology and Climate Research IMK Karlsruhe Institute of Technology Dr. O. Möhler Karlsruhe Germany	Germany	Monitoring of ice cloud forming aerosols at the Jungfraujoch: automation of HINC for continuous INP ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich
Institute of Meteorology and Climate Research IMK Karlsruhe Institute of Technology Dr. T. Blumenstock and team Karlsruhe Germany	Germany	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
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 Forschungsstrasse 111 CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
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 Institute for Chemisry Dr. J. Schneider Mainz	Germany	Monitoring of ice cloud forming aerosols at the Jungfraujoch: automation of HINC for continuous INP ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich
Max-Planck-Institut für Biogeochemie Jena	Germany	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
Max-Planck Institute for Chemistry Particle Chemistry Department and University of Mainz Dr. J. Schneider Mainz	Germany	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
SFC Energy AG Eugen-Sänger-Ring 7 D-85649 Brunnthal	Germany	Performance of Methanol fuel cells in alpine environments armasuisse Science & Technology Test Centre Feuerwerkerstrasse 39 CH-3602 Thun Switzerland
University of Bremen Dr. J. Notholt M. Palm Bremen Germany	Germany	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
ACE-FTS satellite team	International network	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
AGAGE (Advanced Global Atmospheric Gases Experiment) https://agage.mit.edu/	International network	Halogenated Greenhouse Gases at Jungfraujoch 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 Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels, Belgium
Global Atmosphere Watch (GAW)	International network	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf Switzerland
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
Global Atmosphere Watch (GAW)	International network	Continous measurement of stable CO_2 isotopes at Jungfraujoch, Switzerland 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	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
Globalview	International networks	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
GTN-P (Global Terrestrial Network for Permafrost)	International networks	Long-term permafrost monitoring in the Jungfrau East ridge WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
Collaboration with the OMI, TROPOMI (S5P), MetOp GOME-2 and IASI satellite communities	International networks	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels, Belgium
Collaboration with colleagues from the NDACC and TCCON FTIR networks	International networks	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
IG3IS (Integrated Global Greenhouse Gas Information System)	International networks	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf Switzerland
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's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora 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 Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
Satellite experiments: IASI (Infrared Atmospheric Sounding Interferometer	International network	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora 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
World Meteorological Organization (WMO)	International network	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf Switzerland
Korea Polar Research Institute KOPRI	Korea	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf

Institution / network	Country	Collaborating with project:
University of Nova Gorica Centre for Atmospheric Research Grisa Mocnik Ljubljana, Slovenia	Slovenia	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen, Switzerland
Abisenvironment SA Frédéric de Rutté Lonay	Switzerland	Aerosol radioactivity monitoring at the Jungfraujoch Bundesamt für Gesundheit Sektion Umweltradioaktivität Schwarzenburgstrasse 157 CH-3003 Bern
Astronomical Institute of the University of Bern (AIUB) Sidlerstrasse 5 CH-3012 Bern	Switzerland	Stellarium Gornergrat Center for Space and Habitability University of Bern Gesellschaftsstrasse 6 CH-3012 Bern
Astronomical Institute of the University of Bern (AIUB) Dr. Rolf Dach Prof. Dr. Adrian Jäggi Sidlerstrasse 5 CH-3012 Bern	Switzerland	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern
Bundesamt für Umwelt (BAFU)/ Federal Office for the Environment (FOEN)	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
Bundesamt für Umwelt (BAFU)/ Federal Office for the Environment (FOEN)	Switzerland	Halogenated greenhouse gases at Jungfraujoch 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 University of Bern Gesellschaftsstrasse 6 CH-3012 Bern
CERN Radiation to Electronic working group S. Danzeca, R.G. Alia, M. Cecchetto, Ch. Cangialosi, J. Lendaro	Switzerland	Testing and calibration of novel solid state HEH monitors for LHC Beam Dumping System CERN TE/ABT/PPE Prevessin site 865/1-D06 CH-1211 Genève
CERN Radiation protection group P. Carbonez	Switzerland	Testing and calibration of novel solid state HEH monitors for LHC Beam Dumping System CERN TE/ABT/PPE Prevessin site 865/1-D06 CH-1211 Genève
Empa Laboratory for Air Pollution/Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf	Switzerland	High precision carbon dioxide and oxygen measurements at Jungfraujoch Universität Bern Physikalisches Institut Klima- und Umweltphysik Sidlerstrasse 5 CH-3012 Bern
Empa Laboratory for Air Pollution/Environmental Technology Dr. S. Reimann, Dr. M. Steinbacher, Dr. M.K. Vollmer Überlandstrasse 129 CH-8600 Dübendorf	Switzerland	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
Empa Laboratory for Air Pollution/Environmental Technology Dr. D. Brunner, Dr. S. Henne Überlandstrasse 129 CH-8600 Dübendorf	Switzerland	Radiocarbon measurements of atmospheric methane Department of Chemistry and Biochemistry University of Bern Freiestrasse 3 CH-3012 Bern
Empa Laboratory for Air Pollution / Environmental Technology Dr. C. Zellweger, Dr. M. Steinbacher, Dr. M. Vollmer, Dr. S. Reimann CH-8600 Dübendorf	Switzerland	Monitoring of ice cloud forming aerosols at the Jungfraujoch: automation of HINC for continuous INP ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich
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 Forschungsstrasse 111 CH-5232 Villigen Switzerland

Institution / network	Country	Collaborating with project:
Empa Laboratory for Air Pollution/Environmental Technology Dr. S. Reimann, Dr. C. Hüglin, Dr. M. Steinbacher, Ms. C. Zellweger-Fäsi, Dr. A. Fischer CH-8600 Dübendorf	Switzerland	Baseline characterization of air masses using radon-222 University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
ETH Zürich Departement Bau, Umwelt und Geomatik Institut für Geodäsie und Photogrammetrie Prof. Dr. Andreas Wieser CH-8093 Zürich	Switzerland	Trigonometrische Höhenbestimmung Amt für Geoinformation BL Mühlemattstrasse 36 CH-4410 Liestal 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 Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science Dr. Jan Henneberger Universitätstrasse 16 CH-8092 Zürich	Switzerland	Ice nucleating particles and ice multiplication at moderate supercooling University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
ETH Zürich Swiss Federal Institute of Technology Institute for Atmospheric and Climate Science	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
Haute école d'ingénierie et d'architecture Fribourg Bd de Pérolles 80 CH-1705 Fribourg	Switzerland	Stellarium Gornergrat Center for Space and Habitability University of Bern Gesellschaftsstrasse 6 CH-3012 Bern
IGLUNA - habitat in ice Swiss Space Centre and European Space Agency	Switzerland	Testing and calibration of novel solid state HEH monitors for LHC Beam Dumping System CERN TE/ABT/PPE Prevessin site 865/1-D06 CH-1211 Genève
Institut für Aerosol- und Sensortechnik, Fachhochschule Nordwestschweiz, Prof. E. Weingartner Windisch	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
Institute of Applied Physics (IAP) University of Berne Dr. Klemens Hocke Dr. Leonie Bernet	Switzerland	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern
Institute for Computer Music and Sound Technology Zürcher Hochschule der Künste	Switzerland	Mapping the Sound Ecology of the Swiss Alps School of Art College of Design and Social Context 124 La Trobe Street Melbourne, Australia
Institute of Geodesy and Photogrammetry ETH Zürich Prof. Alain Geiger, Dr. Karina Wilgan, Dr. Roland Hohensinn, Dr. Endrit Shehaj	Switzerland	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern
Julia Wunsch https://juliawunsch.ch/	Switzerland	Trigonometrische Höhenbestimmung Amt für Geoinformation BL Mühlemattstrasse 36 CH-4410 Liestal
Kleine Scheidegg train station Andre Hofer	Switzerland	Effect of low atmospheric pressure on diploid sexual and triploid apomictic dandelions (*Taraxacum officinale* agg.) Institut für Pflanzenwissenschaften Universität Bern Altenbergrain 21 CH-3013 Bern
3100 Kulmhotel Gornergrat Gornergrat 3100m CH-3920 Zermatt	Switzerland	Stellarium Gornergrat Center for Space and Habitability University of Bern Gesellschaftsstrasse 6 CH-3012 Bern
MeteoSwiss Gilles Durieux Payerne	Switzerland	Aerosol radioactivity monitoring at the Jungfraujoch Bundesamt für Gesundheit Sektion Umweltradioaktivität Schwarzenburgstrasse 157 CH-3003 Bern

Institution / network	Country	Collaborating with project:
MeteoSwiss	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
MeteoSwiss Dr. L. Vuilleumier Payerne	Switzerland	Aerosol Optical Depth measurements from the GAW-PFR network Physikalisch-Meteorologisches Observatorium Davos PMOD World Radiation Center WRC Dorfstrasse 33 CH-7260 Davos Dorf
MeteoSwiss Zurich and Payerne Dr. Philippe Steiner Dr. Daniel Leuenberger Dr. Alexander Haefele Dr. Rolf Rüfenacht	Switzerland	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern
MeteoSwiss, Payerne Office fédéral de météorologie et de climatologie MétéoSuisse Dr. A. Haefele Dr. J. Klausen Ch. de l'Aérologie 1 CH-1530 Payerne	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen, Switzerland
NABEL (Swiss National Air Pollution Monitoring Network)	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
NABEL (Swiss National Air Pollution Monitoring Network)	Switzerland	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
Oeschger Centre for Climate Change Research University of Bern Hochschulstrasse 4 CH-3012 Bern	Switzerland	Flask comparison on Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
Paul Scherrer Institute Laboratory of Atmospheric Chemistry Dr. M. Gysel, Dr. B. Brem CH-5232 Villigen Switzerland	Switzerland	Monitoring of ice cloud forming aerosols at the Jungfraujoch: automation of HINC for continuous INP ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich
Paul Scherrer Institute Laboratory of Atmospheric Chemistry Dr. M. Gysel, Dr. N. Bukowiecki CH-5232 Villigen Switzerland	Switzerland	Ice nucleating particles and ice multiplication at moderate supercooling University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Paul Scherrer Institute Laboratory of Atmospheric Chemistry Dr. M. Gysel, Dr. N. Bukowiecki 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 Dr. M. Gysel CH-5232 Villigen Switzerland	Switzerland	Long-term study of aerosol particle formation in the free troposphere University of Helsinki Institute for Atmospheric and Earth System Research Gustaf Hällströmin katu 2a FI-00560 Helsinki Finland
Paul Scherrer Institute Laboratory of Atmospheric Chemistry CH-5232 Villigen Switzerland	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Dübendorf
PERMOS (Permafrost Monitoring Switzerland) www.permos.ch/	Switzerland	Long-term permafrost monitoring in the Jungfrau East ridge WSL Institute for Snow and Avalanche Research SLF Flüelastrasse 11 CH-7260 Davos Dorf, Switzerland
PMOD/WRC Dr. Julian Gröbner Dr. Christine Aebi Davos Dorf	Switzerland	Automated GNSS Network Switzerland (AGNES) Swiss Federal Office of Topography swisstopo Seftigenstrasse 264 CH-3084 Wabern

Institution / network	Country	Collaborating with project:
Physikalisch-Meteorologisches Observatorium Davos (PMOD), World Radiation Center (WRC) Dr. S. Nyeki, Dr. J. Gröbner 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
Pro Natura Zentrum Aletsch Laudo Albrecht, Elisabeth Karrer Villa Cassel Riederalp	Switzerland	Glaciological investigations on the Grosser Aletschgletscher ETH Zürich Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) Hönggerbergring 26 CH-8093 Zürich
SCCER-FURIES Future Swiss Electrical Infrastructure	Switzerland	Comparison of PV performances of Jungfraujoch, Mont-Soleil and Burgdorf in February 2019 Bern University of Applied Sciences BFH, Dept. Engineering and Information Technology (EIT) Photovoltaic Laboratory Jlcoweg 1 CH-3400 Burgdorf
Studiengesellschaft Mont Soleil Les Brenet	Switzerland	Comparison of PV performances of Jungfraujoch, Mont-Soleil and Burgdorf in February 2019 Bern University of Applied Sciences BFH, Dept. Engineering and Information Technology (EIT) Photovoltaic Laboratory Jlcoweg 1 CH-3400 Burgdorf
Studiensammlung Kern AG Stadtmuseum Aarau Karl Heinz Münch Schlossplatz 23 CH-5000 Aarau	Switzerland	Trigonometrische Höhenbestimmung Amt für Geoinformation BL Mühlemattstrasse 36 CH-4410 Liestal Switzerland
Swiss GCOS office	Switzerland	High precision carbon dioxide and oxygen measurements at Jungfraujoch 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
Swisstopo Dr. André Streilein, Roberto Artuso Wabern	Switzerland	Glaciological investigations on the Grosser Aletschgletscher ETH Zürich Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie (VAW) Hönggerbergring 26 CH-8093 Zürich
Unisanté Centre universitaire de médecine générale et santé publique Dr. D. Vernez, Dr. J.-L. Bulliard Lausanne	Switzerland	Global Atmosphere Watch Radiation Measurements Federal Office of Meteorology and Climatology MeteoSwiss Station Aérologique 1 Ch. de l'Aérologie CH-1530 Payerne
Universität Basel Institut für Umweltgeowissenschaften Dr. F. Conen, C. Mignani Bernoullistrasse 30 CH-4056 Basel	Switzerland	Monitoring of ice cloud forming aerosols at the Jungfraujoch: automation of HINC for continuous INP ETH Zürich Institute for Atmospheric and Climate Science Universitätsstrasse 16 CH-8092 Zürich
Universität Basel Institut für Umweltgeowissenschaften Dr. Franz Conen Bernoullistrasse 30 CH-4056 Basel	Switzerland	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
Universität Basel Institut für Umweltgeowissenschaften Dr. Franz Conen Bernoullistrasse 30 CH-4056 Basel	Switzerland	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium

Institution / network	Country	Collaborating with project:
Universität Basel Institut für Umweltgeowissenschaften Bernoullistrasse 30 CH-4056 Basel	Switzerland	Continuous measurement of stable CO_2 isotopes at Jungfraujoch, Switzerland Empa Laboratory for Air Pollution and Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf
University of Basel Environmental Geosciences	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and Environmental Technology Ueberlandstrasse 129 CH-8600 Duebendorf
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	Surface ozone observations in the historical perspective Empa Laboratory for Air Pollution and 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 Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
University of Bern Physics Institute Climate and Environmental Physics Prof. M. Leuenberger Sidlerstrasse 5 CH-3012 Bern	Switzerland	Radiocarbon measurements of atmospheric methane Department of Chemistry and Biochemistry University of Bern Freiestrasse 3 CH-3012 Bern
University of Bern Physics Institute Climate and Environmental Physics Prof. M. Leuenberger Sidlerstrasse 5 CH-3012 Bern	Switzerland	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium)
University of Bern Physics Institute Climate and Environmental Physics Sidlerstrasse 5 CH-3012 Bern	Switzerland	Continuous measurement of stable CO2 isotopes at Jungfraujoch, 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 Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
Universität Bern Physikalisches Institut Klima- und Umweltphysik Dr. Roland Purtschert Sidlerstrasse 5 CH-3012 Bern	Switzerland	^{85}Kr Activity Determination in Tropospheric Air Bundesamt für Strahlenschutz Rosastrasse 9 D-79098 Freiburg
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 Gesellschaftsstrasse 6 CH-3012 Bern
Zürcher Hochschule der Künste Forschungsschwerpunkt Transdisziplinarität Dr. Florian Dombois	Switzerland	2°, an artistic research about the possibilities of seeing climate change Zürcher Hochschule der Künste Toni-Areal Pfingstweidstrasse 96 / Postfach CH-8031 Zürich Switzerland
Centre for Isotope Research CIO University of Groningen Proff. H. Chen and H. Meijer The Netherlands	The Netherlands	Flask comparison on Jungfraujoch Max Planck Institut für Biogeochemie Hans Knöll Str. 10 D-007745 Jena
Chiplr/ISIS Neutron and Muon Source Science and Technology Facilities Council Rutherford Appleton Laboratory UK	UK	Testing and calibration of novel solid state HEH monitors for LHC Beam Dumping System CERN TE/ABT/PPE Prevessin site 865/1-D06 CH-1211 Genève
University of Bristol	UK	Halogenated greenhouse gases at Jungfraujoch Empa Laboratory for Air Pollution/ Environmental Technology Überlandstrasse 129 CH-8600 Dübendorf

Institution / network	Country	Collaborating with project:
University of Leeds School of Earth and Environment Martin Chipperfield Leeds, LS2 9JT United Kingdom	UK	Atmospheric physics and chemistry Royal Belgian Institute for Space Aeronomy (BIRA-IASB) Ringlaan 3 B-1180 Brussels Belgium
University of Leeds Dr. M.P. Chipperfield and team Leeds United Kingdom	UK	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
Colorado State University Cooperative Institute for Research in Environmental Sciences (CIRES) Dr. J.M. Creamean Boulder, CO, USA	USA	Ice nucleating particles and ice multiplication at moderate supercooling University of Basel Department of Environmental Sciences Bernoullistrasse 30 CH-4056 Basel
Colorado State University Dr. E.V. Fischer Fort Collins, CO, USA	USA	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
NOAA Dr. E. Andrews Boulder, USA	USA	The Global Atmosphere Watch Aerosol Program at Jungfraujoch Paul Scherrer Institute Laboratory of Atmospheric Chemistry Forschungsstrasse 111 CH-5232 Villigen Switzerland
NASA JPL California Institute of Technology Dr. G.C. Toon Pasadena, CA USA	USA	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium
National Center for Atmospheric Research Mr. J. Hannigan Boulder, CO USA	USA	High resolution, solar infrared Fourier transform spectrometry: application to the study of the Earth's atmosphere Université de Liège Institut d'Astrophysique et de Géophysique Quartier Agora Allée du six Août, 19 - Bâtiment B5a B-4000 Sart Tilman (Liège), Belgium