

Presentations with ICOS-CH contribution to EGU 2026

Number	Authors	Title	Type	Session	Date/Time
7090	Stuart Grange , Peter Nyfeler, Vasileios Mandrakis, Filip Zürcher, and Eliza Harris	Exploring the ocean and land carbon sinks from Jungfrauoch's carbon dioxide and oxygen observational record	Oral	BG1.3	2026-05-04 09:00
18213	Joel Thanwerdas, Antoine Berchet, Isabelle Pison, Friedemann Reum, Eldho Elias, Gregoire Broquet, Frédéric Chevallier, Rona Louise Thompson, Audrey Fortems-Cheiney, Aki Tsuruta, Anteneh Mengistu, Philippe Peylin, Vladislav Bastrikov, Elise Potier, Marielle Saunois, Adrien Martinez, Lukas Emmenegger , and Dominik Brunner	Community Inversion Framework as an operational tool for inverse modelling	Oral	BG1.3	2026-05-04 09:20
21220	Susanne Tautenhahn, Martin Jung, Jana Wäldchen, Ladislav Šigut, Sung Ching Lee, Markus Reichstein, Dario Papale, Jacob Nelson, Sophia Walther, Flavian Tschurr, Nina Buchmann , Jens Kattge, Florian Jansen, Jürgen Dengler, and Gabriele Midolo and the FloraFlux community	FloraFlux: Automated plant identification for understanding ecosystem functioning across global flux tower sites	Poster	BG8.3	2026-05-04 14:00
10633	Werner Leo Kutsch and ICOS Cities Team	Observing urban greenhouse gas emissions – key results of the ICOS Cities project	Oral	AS3.34	2026-05-04 16:15
1881	Joachim Mohn, Patrick Siegwolf, Andrew R. Whitehill, Stephan Henne, Samuel Hammer, Lukas Wacker, Lukas Emmenegger , and Béla Tuzson	High-temporal resolution measurements of radiocarbon in atmospheric CO ₂ for source sector attribution of urban emissions	Oral	AS3.34	2026-05-04 17:15

6781	Christian Feigenwinter, Armin Sigmund, Robert Spirig, Stavros Stagakis, Roland Vogt, and Markus Kalberer	Impact of transition of heating types and traffic on urban CO ₂ emissions – long-term interannual and seasonal analysis of two flux towers in the city of Basel, Switzerland	Poster	AS3.34	2026-05-05 14:00
12479	Rossella Guerrieri, Marco Montedoro, Sofia Berlanda, Lorenzo Arcidiaco, Matteo Rossi, Francesco Mazzenga, Katja Rinne- Garmston, Giorgio Matteucci, and the ICOS and ICP Forests collaborators	Forest responses to nitrogen deposition and climate extremes as assessed by combining stable isotopes in tree rings and ecosystem fluxes	Oral	CL1.2.1	2026-05-06 15:15
4793	Yu Zhou, Mana Gharun, Jingfeng Xiao, Rossella Guerrieri, Xing Li, and Nina Buchmann	Atmospheric Deposition Outweighs Dryness in Regulating European Ecosystem Productivity	Oral	BG3.8	2026-05-07 09:20
22892	Capucine Marion, Roman Zweifel, Nina Buchmann, Matthias Brennwald, and Rolf Kipfer	In-situ measurements of dissolved gases in tree xylem sap as tracers for plant physiology	Oral	HS10.7	2026-05-07 11:50
13185	Aolin Jia, Helge Aasen, and Nina Buchmann	Integrating Eddy-Covariance and Satellite Data to Upscale ET and GHG Fluxes across Swiss Agricultural Systems	Oral	BG9.9	2026-05-07 14:00
7688	Christoph Zellweger, Martin Steinbacher, Lukas Emmenegger	Traceability and Internal Consistency of Greenhouse Gases and Related Tracers within the Global Atmosphere Watch Programme	Oral	AS3.41	2026-05-07 14:05
1700	Andrew Whitehill, Patrick Siegwolf, Samuel Hammer, Susanne Preunkert, Ruth Hill- Pearce, Sarah Channell, Sangil Lee, Hanjun Eun, Kiryong Hong, Lukas Emmenegger, Béla Tuzson, and Joachim Mohn	Comparison of carbon dioxide sources for use as spectroscopic radiocarbon standards	Oral	AS3.41	2026-05-07 14:35
12044	Martin Steinbacher, Christoph Zellweger, Lukas Emmenegger	Assessment of eight laser spectrometers for atmospheric nitrous oxide analysis	Poster	AS3.41	2026-05-07 16:15

6602	Aneena Binoy, Armin Sigmund , Stavros Stagakis , and Alessandro Bigi	Improving Urban Eddy-Covariance CO ₂ Flux Estimates Through Removal of Anomalies in High-Frequency Data Using the IMAS Algorithm	Oral	AS2.2	2026-05-07 16:20
8997	Armin Sigmund , Dominik Brunner, Jia Chen, Rainer Hilland, Andreas Christen, Christian Feigenwinter , Roland Vogt, Lukas Emmenegger , Markus Kalberer , and Stavros Stagakis	Leveraging CO ₂ sensor networks to address challenges in urban eddy-covariance measurements	Oral	AS2.2	2026-05-07 16:30
2748	Lukas Emmenegger , Luce Creman, Andrea Fischer, Stuart K. Grange , Christoph Hüglin, Pascal Rubli, and Dominik Brunner	Design, operation, and insights from Zurich's mid- and low-cost ICOS Cities CO ₂ sensor network	Oral	AS3.38	2026-05-08 10:45