

## Presentations with ICOS-CH contribution to EGU 2026

Number	Authors	Title	Type	Session	Date/Time
7090	<b>Stuart Grange</b> , Peter Nyfeler, Vasileios Mandrakis, Filip Zürcher, and <b>Eliza Harris</b>	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, <b>Lukas Emmenegger</b> , 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, <b>Nina Buchmann</b> , 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 <b>ICOS Cities Team</b>	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, <b>Lukas Emmenegger</b> , and Béla Tuzson	High-temporal resolution measurements of radiocarbon in atmospheric CO <sub>2</sub> for source sector attribution of urban emissions	Oral	AS3.34	2026-05-04 17:15

6781	<b>Christian Feigenwinter, Armin Sigmund,</b> Robert Spirig, <b>Stavros Stagakis,</b> Roland Vogt, and <b>Markus Kalberer</b>	Impact of transition of heating types and traffic on urban CO <sub>2</sub> 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, <b>and the ICOS</b> and ICP Forests <b>collaborators</b>	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 <b>Nina</b> <b>Buchmann</b>	Atmospheric Deposition Outweighs Dryness in Regulating European Ecosystem Productivity	Oral	BG3.8	2026-05-07 09:20
22892	Capucine Marion, <b>Roman Zweifel, Nina</b> <b>Buchmann,</b> 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 <b>Nina Buchmann</b>	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, <b>Martin Steinbacher,</b> <b>Lukas Emmenegger</b>	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, <b>Lukas Emmenegger,</b> 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	<b>Martin Steinbacher,</b> Christoph Zellweger, <b>Lukas Emmenegger</b>	Assessment of eight laser spectrometers for atmospheric nitrous oxide analysis	Poster	AS3.41	2026-05-07 16:15

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