



Swiss National GAW/GCOS Symposium 2026: Poster Session – List of Posters

Increasing Importance of Earth System Data - Wednesday 25 March 14:00 - 15:00

#	Title	Authors	Institution
1	Accurate in-situ monitoring of UTLS water vapor by laser absorption spectroscopy	S. Brunamonti B. Tuzson Swiss H ₂ O-Hub	Empa
2	URS – an open access platform for standardized Swiss urban climate data	M. Burger P. Bigler M. Gubler S. Brönnimann	University of Bern
3	A cryogenically cooled radiometer, for middle atmospheric water vapor retrievals	A. Filinis A. Bell A. Murk G. Stober Swiss H ₂ O-Hub	University of Bern
4	Assessment of summer drying in Switzerland – with focus on observational soil moisture and runoff data	M. Hirschi L. Gudmundsson B. Kraft S. Seneviratne	ETH Zurich
5	Renewal of the FTIR platform at Jungfrauoch: first characterization of the performance of the new equipment	E. Mahieu	University Liège
6	Swiss H ₂ O Hub observations of post Hunga-Tonga UTLS water vapor with balloon-borne frost point hygrometers	Y. Poltera ¹ F. Wienhold ² V. Artho ² S. Brossi ³ T. Brossi ³ S. Brunamonti ⁴ G. Romanens ⁵ A. Brun ² B. Luo ² T. Peter ² G. Stober ¹	¹ University of Bern ² ETH Zurich ³ mylab elektronik GmbH, Bubikon ⁴ Empa ⁵ MeteoSwiss
7	Automatization of the totalizer network in Switzerland: results of the pilot phase	M. Rohrer ¹ M. Schwarb ¹ D. Lorenzi ¹ C. Allemann ² C. Hotz ² T. Konzelmann ² S. Vogt ² C. Marty ³	¹ Meteodat GmbH ² MeteoSwiss ³ WSL/SLF
8	Standardizing atmospheric measurements of halogenated VOCs based on SI-traceability	D. Roos T. Bühlmann M. K. Vollmer F. Hiault E. Mahieu S. Reimann	Metas Empa Liège
9	GAW QC – an interactive dashboard to facilitate quality control of in situ atmospheric composition measurements	M. Steinbacher Y. Brugnara S. Baffelli C. Zellweger	Empa



		L. Emmenegger	
10	The Quality Assurance / Science Activity Centre Switzerland of WMO's Global Atmosphere Watch Programme	M. Steinbacher C. Zellweger Y. Brugnara L. Emmenegger	Empa
11	Development and Application of the Peltier Cooled Frostpoint Hygrometer (PCFH) for Water Vapor Measurements up to the Lower Stratosphere	F. Wienhold ¹ S. Brossi ² T. Brossi ² Y. Poltera ³ T. Peter ¹	¹ ETH Zurich ² mylab elektronik GmbH, Bubikon ³ University of Bern
12	Three Decades of WCC-Empa Audits: Strengthening Traceability and Data Quality in the GAW Network	C. Zellweger M. Steinbacher L. Emmenegger	Empa
13	Towards Stand-Alone Monitoring of Carbonaceous Aerosol: FATCAT Measurements and Thermogram-Based Interpretation	A. Keller	FHNW
14	GCOS Switzerland – Inventory Report, Update 2025	Swiss GAW/GCOS Office	MeteoSwiss
15	GAW-CH and GCOS-CH supported activities – Monitoring	Swiss GAW/GCOS Office	MeteoSwiss
16	GAW-CH and GCOS-CH supported activities – Central Facilities	Swiss GAW/GCOS Office	MeteoSwiss

Earth System Data for Impactful Applications - Thursday 26 March 12:15 - 13:15

#	Title	Authors	Institution
1	From Dust Storms to Wildfire Smoke: Extreme Events Shaping a Decade of Aerosols at Jungfrauoch	B. Brem	PSI
2	ICOS Switzerland: The Swiss Contribution to a Pan-European Environmental Research Infrastructure	S. Burri ¹ N. Buchmann ¹ F. Conen ² L. Emmenegger ³ A. Haeefe ⁴ E. Harris ⁵ M. Kalberer ² R. Zweifel ⁶	¹ ETH Zurich ² University of Basel ³ Empa ⁴ MeteoSwiss ⁵ University of Bern ⁶ WSL
3	A 3D radiation model for urban ecophysiology modelling	G. Cavalcabo ¹ S. Stagakis M. Kalberer	University of Basel
4	Detection and 24-year climatology of the frequency and mass of Saharan dust at the high-altitude site Jungfrauoch	M. Collaud ¹ B.T. Brem ² R. Modini ² M. Gysel-Beer ² M. Steinbacher ³ S. Henne ³	¹ MeteoSwiss ² PSI ³ Empa



5	High-resolution seasonal soil moisture maps for Swiss forests	A. Dietzel F. Zellweger K. Meusburger	WSL
6	Overall uncertainty budget of Dobsons from the Arosa/Davos total column ozone timeseries.	L. Egli ¹ J. Gröbner ¹ R. Rüfenacht ² F. Cabello ¹ V. Velazco ³ G. Porrovecchio ⁴ M. Smid ⁴	¹ PMOD/WRC ² MeteoSwiss ³ DWD ⁴ CMI
7	Detecting drought impacts on ecosystem physiology from multispectral, thermal, and meteorological remote sensing data.	Y. El-Mejjaouy	University of Bern
8	Where do city trees get their water? Urban density effects on tree water uptake in Zurich	S. Emberger ¹ L. Scapucci ¹ S. Stagakis ² N. Buchmann ¹	¹ ETH Zurich ² University of Basel
9	Automatic and real-time Swiss pollen monitoring network	S. Erb	MeteoSwiss
10	A physically based approach to compensate for shadow effects in imaging spectroscopy data	L. Groeneveld A. Damm	University of Zurich
12	Permafrost evolution in the Swiss Alps based on 25 years of coordinated observation	J. Noetzli C. Pellet	SLF
13	GNSS-IR for snow and soil moisture retrieval	B. Soja	ETH Zurich