

Conference and Workshop Contributions

Talks

Hirschi, M., B. Crezee, W. Dorigo, and S. I. Seneviratne. Characterising recent drought events in the context of dry-season trends using current reanalysis and remote-sensing soil moisture products. General Assembly of the European Geosciences Union (EGU), April 2023, online. EGU23-12832. [[abstract](#)]

Hirschi, M., B. Crezee, W. Dorigo, and S. I. Seneviratne. Characterising recent drought events using current reanalysis and remote-sensing soil moisture products with a standardised anomalies-based framework. General Assembly of the European Geosciences Union (EGU), May 2022, online. EGU22-11252. [[abstract](#)]

Hirschi, M., B. Crezee, and S. I. Seneviratne. Characterising recent drought events using current reanalysis and remote-sensing soil moisture products within a common framework. General Assembly of the European Geosciences Union (EGU), April 2021, online. EGU21-4483. [[abstract](#)]

Hirschi, M., D. Michel, I. Lehner and S. I. Seneviratne. A multi-year comparison of lysimeter and eddy covariance measurements of evapotranspiration at the Rietholzbach catchment. General Assembly of the European Geosciences Union (EGU), April 2017, Vienna, Austria. EGU2017-8610. [[abstract \(pdf\)](#)]

Hirschi, M., D. Michel, I. Lehner and S. I. Seneviratne. A Site-Level Comparison of Lysimeter and Eddy-Covariance Flux Measurements of Evapotranspiration. AGU Fall Meeting, December 2015, San Francisco, USA (invited). H32B-06. [[abstract](#)]

Hirschi, M., H. Mittelbach, N. Nicolai-Shaw and S. I. Seneviratne. Soil moisture for hydrological cycle and climate studies. ISSI International Team Meeting “Adding value to soil moisture information for climate studies”, 24–28 November 2014, Berne, Switzerland.

Hirschi, M., B. Mueller, W. Dorigo and S. I. Seneviratne. The role of surface vs. root-zone soil moisture variability for soil moisture-temperature coupling. General Assembly of the European Geosciences Union (EGU), April/May 2014, Vienna, Austria. EGU2014-6058. [[abstract \(pdf\)](#)]

Mueller, B., **Hirschi, M.**, S. I. Seneviratne and co-authors. Benchmark products for land evapotranspiration: LandFlux-EVAL multi-dataset synthesis. SeaFlux/LandFlux Workshop, 19/20 September 2013, Vienna, Austria.

Hirschi, M., S. I. Seneviratne, V. Alexandrov, F. Boberg, C. Boroneant, O. B. Christensen, H. Formayer, B. Orłowsky and P. Stepanek. Observational evidence for soil-moisture impact on hot extremes in Southeastern Europe. 3rd iLEAPS Science Conference, 18–23 September 2011, Garmisch-Partenkirchen, Germany.

Hirschi, M., S. Stoeckli, M. Dubrovsky, C. Spirig, M. W. Rotach, P. Calanca and J. Samietz. Agricultural pests under future climate conditions in Switzerland. General Assembly of the European Geosciences Union (EGU), April 2011, Vienna, Austria. EGU2011-6063. [[abstract \(pdf\)](#)]

Hirschi, M., S. Stoeckli, M. Dubrovsky, C. Spirig, M. W. Rotach, P. Calanca and J. Samietz. Agricultural pests under future climate conditions: downscaling of regional climate scenarios with a stochastic weather generator. European Conference on Applied Climatology (ECAC), 13–17 September 2010, Zürich, Switzerland. [[abstract \(pdf\)](#)]

Hirschi, M. and S. I. Seneviratne. Co-variability of spring and autumn precipitation over France: Evidence of missing processes in current climate models? General Assembly of the European Geosciences Union (EGU), April 2009, Vienna, Austria. EGU2009-6827. [[abstract \(pdf\)](#)]

Hirschi, M., P. Stepanek, S. I. Seneviratne, O. B. Christensen, E. Jäger and CECILIA WP4 members. Extremes indices in the EU-FP6 project Cecilia. ETCCDI/ENSEMBLES joint workshop on "Extremes in a Changing Climate", 13–16 May 2008, KNMI, De Bilt, The Netherlands.

Hirschi, M., P. Stepanek, S. I. Seneviratne, O. B. Christensen and CECILIA WP4 members. CECILIA climate indices: Analysis of temperature extremes in Central and Eastern Europe. General Assembly of the European Geosciences Union (EGU), April 2008, Vienna, Austria. EGU2008-A-09640. [[abstract \(pdf\)](#)]

Hirschi, M., S. I. Seneviratne and C. Schär. Evaluation of terrestrial water storage variations in regional climate simulations over Europe using basin-scale combined water-balance data. 86th AMS Annual Meeting, 29 January–2 February 2006, Atlanta, USA. [[extended abstract](#)]

Hirschi, M., S. I. Seneviratne and C. Schär. Evaluation of PRUDENCE regional climate simulations over Europe using basin-scale combined water-balance data. General Assembly of the European Geosciences Union (EGU), April 2005, Vienna, Austria. EGU05-A-03532. [[abstract \(pdf\)](#)]

Hirschi, M., S. I. Seneviratne and C. Schär. Wasserbilanzen grosser Einzugsgebiete in den mittleren Breiten: Methodik und Resultate ("Water balances of major river basins in the mid-latitudes: Methodology and results"). Seminar für Hydrologie, ETH Zürich, 28 November 2003, Zürich, Switzerland.

Poster Presentations

Hirschi, M. and S. I. Seneviratne. Basin-scale water-balance dataset (BSWB): an update. General Assembly of the European Geosciences Union (EGU), April 2017, Vienna, Austria. EGU2017-15994. [[abstract \(pdf\)](#)]

Hirschi, M., D. Michel, I. Lehner and S. I. Seneviratne. A site-level comparison of lysimeter and eddy-covariance flux measurements of evapotranspiration. General Assembly of the European Geosciences Union (EGU), April 2015, Vienna, Austria. EGU2015-10339. [[abstract \(pdf\)](#)]

Hirschi, M., B. Mueller, W. Dorigo and S. I. Seneviratne. The role of surface vs. root-zone soil moisture variability for soil moisture-temperature coupling. 7th International Scientific Conference on the Global Water and Energy Cycle, July 2014, The Hague, The Netherlands.

Hirschi, M., B. Mueller, W. Dorigo and S. I. Seneviratne. Soil moisture-temperature coupling: revisited using remote sensing soil moisture. ESA Satellite Soil Moisture Validation & Application Workshop, July 2013, Frascati, Italy.

Hirschi, M., B. Mueller, W. Dorigo and S. I. Seneviratne. Soil moisture-temperature coupling: revisited using remote sensing soil moisture. General Assembly of the European Geosciences Union (EGU), April 2013, Vienna, Austria. EGU2013-9657. [[abstract \(pdf\)](#)]

Hirschi, M., M. Dubrovsky, C. Spirig, J. Samietz, P. Calanca, A. P. Weigel, A. M. Fischer and M. W. Rotach. Monthly forecasting of agricultural pests in Switzerland. General Assembly of the European Geosciences Union (EGU), April 2012, Vienna, Austria. EGU2012-2892. [[abstract \(pdf\)](#)]

Hirschi, M., S. Stoeckli, M. Dubrovsky, C. Spirig, P. Calanca, M. W. Rotach, A. M. Fischer and J. Samietz. High-resolution climate change scenarios for impact studies: Pests in a future climate as an example. 13th Swiss Global Change Day, 4 April 2012, Berne, Switzerland. (Awarded with the [IGBP poster award](#).)

Hirschi, M., M. Dubrovsky, C. Spirig, J. Samietz, P. Calanca and M. W. Rotach. Sub-seasonal forecasting of agricultural pests in Switzerland. European Conference on Applications of Meteorology (ECAM), 12–16 September 2011, Berlin, Germany. [[abstract \(pdf\)](#)]

Hirschi, M., S. I. Seneviratne, V. Alexandrov, F. Boberg, C. Boroneant, O. B. Christensen, H. Formayer, B. Orłowsky and P. Stepanek. Observational evidence for soil-moisture impact on hot extremes in Southeastern Europe. General Assembly of the European Geosciences Union (EGU), April 2011, Vienna, Austria. EGU2011-6227.

Dubrovsky, M., **M. Hirschi** and C. Spirig. HOWGH: an hourly weather generator for pests modeling in present and future climates. General Assembly of the European Geosciences Union (EGU), April 2011, Vienna, Austria. EGU2011-9536. [[abstract \(pdf\)](#)]

Stoekli, S., **M. Hirschi**, M. Dubrovsky, C. Spirig, P. Calanca, B. Duffy, M. Rotach and J. Samietz. Agricultural pest and disease forecasting under future climate conditions. 11th Swiss Global Change Day, 25 May 2010, Berne, Switzerland. (Awarded with the [IGBP poster award](#).)

Mueller, B. et al. First results from the LandFlux-EVAL intercomparison project: Analysis of multi-annual evapotranspiration datasets. General Assembly of the European Geosciences Union (EGU), May 2010, Vienna, Austria.

Mueller, B., **M. Hirschi** and S. I. Seneviratne. Terrestrial water storage estimates from water balance diagnostics and satellite retrievals. General Assembly of the European Geosciences Union (EGU), May 2010, Vienna, Austria.

Hirschi, M., F. Boberg, O. B. Christensen, S. I. Seneviratne, P. Stepanek and CECILIA WP4 members. Analyses of climate and extreme indices in Central and Eastern Europe within the CECILIA project. General Assembly of the European Geosciences Union (EGU), April 2009, Vienna, Austria. EGU2009-10112. [[abstract \(pdf\)](#)]

Hirschi, M., P. Stepanek, F. Boberg, S. I. Seneviratne, O. B. Christensen and CECILIA WP4 members. Analysis of measures of extreme weather events in Central and Eastern Europe. 7th International NCCR Climate Summer School, 31 August–5 September 2008, Monte Verità, Switzerland.

Hirschi, M. and S. I. Seneviratne. Terrestrial water storage from basin-scale water-balance diagnostics and GRACE: an updated comparison. General Assembly of the European Geosciences Union (EGU), April 2008, Vienna, Austria. EGU2008-A-09726. [[abstract \(pdf\)](#)]

Hirschi, M. and S. I. Seneviratne. Recent variations in terrestrial water storage: Comparison of GRACE against basin-scale water-balance diagnostics. KHR-Workshop on "Low flows and droughts", 25–26 September 2007, Würzburg, Germany.

Hirschi, M. and S. I. Seneviratne. Climate and extremes in Central and Eastern Europe: the CECILIA project. 6th International NCCR Climate Summer School, 26–31 August 2007, Grindelwald, Switzerland.

Hirschi, M., P. Viterbo and S. I. Seneviratne. Comparison of GRACE-derived terrestrial water storage against basin-scale water-balance diagnostics. General Assembly of the European Geosciences Union (EGU), April 2007, Vienna, Austria. EGU2007-A-07606.

Hirschi, M., S. I. Seneviratne and C. Schär. Terrestrial water storage variations in regional climate models. 4th International NCCR Climate Summer School, 27 August–2 September 2005, Grindelwald, Switzerland.

Hirschi, M., S. I. Seneviratne, P. Viterbo and C. Schär. Water balance estimates of seasonal changes in terrestrial water storage for major river basins of the northern mid-latitudes, in Proceedings of the 2nd

International [CAHMDA](#) Workshop on: The Terrestrial Water Cycle: Modelling and Data Assimilation Across Catchment Scales, edited by A. J. Teuling, H. Leijnse, P. A. Troch, J. Sheffield and E. F. Wood, pp. 13-15. Princeton, NJ, USA, 25–27 October 2004.

Seneviratne, S. I., R. Reichle, R. D. Koster, S. P. P. Mahanama, **M. Hirschi** and C. Schär. Basin-scale water-balance estimates of terrestrial water-storage variations: Potential for data assimilation, in Proceedings of the 2nd International [CAHMDA](#) Workshop on: The Terrestrial Water Cycle: Modelling and Data Assimilation Across Catchment Scales, edited by A. J. Teuling, H. Leijnse, P. A. Troch, J. Sheffield and E. F. Wood, pp. 17-20. Princeton, NJ, USA, 25–27 October 2004.

Hirschi, M., S. I. Seneviratne, P. Viterbo and C. Schär. Water balance computations of seasonal changes in terrestrial water storage for major river basins of the northern mid-latitudes. 3rd International NCCR Climate Summer School, 29 August–3 September 2004, Monte Verità, Switzerland

Hirschi, M., S. I. Seneviratne and C. Schär. Water balance estimates of seasonal changes in terrestrial water storage for major river basins of the northern mid-latitudes. First General Assembly of the European Geophysical Union, April 2004, Nice, France. EGU04-A-03679. [[abstract \(pdf\)](#)]

Van den Hurk, B. J. J. M., G. Lenderink and **M. Hirschi**. Control of soil-atmosphere feedback on precipitation changes under changing climate conditions. First General Assembly of the European Geophysical Union (EGU), April 2004, Nice, France. EGU04-A-02778. [[abstract \(pdf\)](#)]

Seneviratne, S. I., **M. Hirschi**, P. Viterbo, D. Lüthi and C. Schär. Water-balance estimates of changes in terrestrial water storage using ERA-40 reanalysis data: Validation and potential applications. Joint Assembly of the EGS/AGU/EUG, April 2003, Nice, France.

Hirschi, M., S. I. Seneviratne, P. Viterbo, D. Lüthi and C. Schär. Water balance computations of seasonal changes in terrestrial water storage for major Eurasian river basins. AMS Annual Meeting, February 2003, Long Beach, California, USA.

Public Presentations

Hirschi, M., B. Orlowsky and S. I. Seneviratne. Herausforderung Klimawandel - Prognosen mit Unsicherheiten. PEAK-Fachtagung "Herausforderungen einer nachhaltigen Wasserwirtschaft", Eawag, 14 September 2012, Dübendorf.

Hirschi, M. Klimawandel und Waldwirtschaft, Szenarien und Schnittpunkte. BLDZ-Anlass „Papier und Umwelt“, Kanton Thurgau, 19 November 2008, Frauenfeld.

Hirschi, M. Klima und Papier. Kick-off meeting, Sihl + Eika Papier AG, 20 August 2008, Thalwil.