

## Peer-reviewed international publications

2018

- Post, H., **H.J. Hendricks Franssen**, X. Han, R. Baatz, C. Montzka, M. Schmidt, and H. Vereecken, 2018. Evaluation and uncertainty analysis of regional scale CLM4.5 net carbon flux estimates. Biogeosciences, accepted.
- Zhang, H., W. Kurtz, S. Kollet, H. Vereecken and **H.J. Hendricks Franssen**, 2018. Comparison of different assimilation methodologies of groundwater levels to improve predictions of root zone soil moisture with an integrated terrestrial systems model. Advances in Water Resources 111, 224-238.
- Schilling, O., D.J. Irvine, **H.J. Hendricks Franssen**, and P. Brunner, 2018. Estimating the spatial extent of unsaturated zones in heterogeneous river-aquifer systems. Water Resources Research, accepted.

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- Brunner, P., R. Therrien, P. Renard, C.T. Simmons, and **H.J. Hendricks Franssen**, 2017. Advances in understanding river-groundwater interactions. Reviews of Geophysics, 55, doi: 10.1002/2017RG000556.
- Tang, Q., W. Kurtz, O.S. Schilling, P. Brunner, H. Vereecken, and **H.J. Hendricks Franssen**. 2017. The influence of riverbed heterogeneity patterns on river-aquifer exchange fluxes under different connection regimes. An evaluation with an integrated hydrological model and data assimilation. Journal of Hydrology, 554, 383-396.
- Zhang, H., **H.J. Hendricks Franssen**, X. Han, J.A. Vrugt, and H. Vereecken, 2017. State and parameter estimation of two land surface models using the Ensemble Kalman Filter and particle filter. Hydrology and Earth System Sciences, 21, 4927-4958.
- Baatz, D., W. Kurtz, **H.J. Hendricks Franssen**, H. Vereecken, and S.J. Kollet, 2017. Catchment tomography – An approach for spatial parameter estimation. Advances in Water Resources 107- 147-159.
- Baatz, R., **Hendricks Franssen, H.J.**, X. Han, T. Hoar, H.R. Bogaen, and H. Vereecken, 2017. Evaluating the value of a network of cosmic-ray probes for improving land surface modeling. Hydrology and Earth System Sciences, 21, 2509-2530.
- Zovi, F., M. Camporese, **H.J. Hendricks Franssen**, J.A. Huisman, and P. Salandin, 2017. Identification of high permeability subsurface structures with multiple point geostatistics and normal score ensemble Kalman filter. Journal of Hydrology, 548, 208-224.
- Kurtz, W., A. Lapin, O. Schilling, Q. Tang, E. Schiller, T. Braun, D. Hunkeler, H. Vereecken, E. Sudicky, P. Kropf, **H.J. Hendricks Franssen**, and P. Brunner, 2017. Integrating hydrological modelling, data assimilation and cloud computing for real-time management of water resources. Environmental Modelling and Software, 93, 418-435.
- Post, H., J.A. Vrugt, A. Fox, H. Vereecken, and **H.J. Hendricks Franssen**. 2017. Estimation of Community Land Model parameters for an improved assessment of net carbon fluxes at European sites. Journal of Geophysical Research - Biogeosciences, doi:10.1002/2015JG003297.
- Gebler, S., **H.J. Hendricks Franssen**, S.J. Kollet, W. Qu and H. Vereecken, 2017. High resolution modelling of soil moisture patterns with TerrSysMP. A comparison with sensor network data. Journal of Hydrology, 547, 309-331.

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- Vereecken, H., Y. Pachepsky, C. Simmer, J. Rihani, A. Kunothe, W. Korres, A. Graf, **H.J. Hendricks Franssen**, I. Thiele-Eich, and Y. Shao. 2016. On the role of patterns in understanding the functioning of soil-vegetation-atmosphere systems. Journal of Hydrology, 542, 63-86.
- Han, X., **H.J. Hendricks Franssen**, M.A. Jimenez-Bello, R. Rosolem, H. Bogaen, F. Martinez-Alzamora, A. Chanzy, and H. Vereecken. 2016. Simultaneous soil moisture and soil properties estimation for a drip irrigated field by assimilating cosmic ray neutron intensity. Journal of Hydrology 539, 611-624.
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- Baveye, M. Berli, N. Brüggemann, P. Finke, M. Flury, T. Gaiser, G. Govers, T. Ghezzehei, P. Hallett, **H.J. Hendricks Franssen**, J. Heppell, R. Horn, J.A. Huisman, D. Jacques, F. Jonard, S. Kollet, F. Lafolie, K. Lamorski, D. Leitner, A. McBratney, B. Minasny, C. Montzka, W. Nowak, Y. Pachepsky, J. Padarian, N. Romano, K. Roth, Y. Rothfuss, E.C. Rowe, A. Schwen, J. Šimůnek, A. Tiktak, J. Van Dam, S.E.A.T.M. van der Zee, H.J. Vogel, J.A. Vrugt, T. Wöhling, and I.M. Young. 2016. Modelling soil processes: review, key challenges, and new perspectives. *Vadose Zone Journal* 15(5).
- Kurtz, W., He, G., Kollet, S. J., Maxwell, R. M., Vereecken, H., and **Hendricks Franssen, H.-J.** 2016. TerrSysMP-PDAF (version 1.0): a modular high-performance data assimilation framework for an integrated land surface–subsurface model, *Geosci. Model Dev.*, 9, 1341-1360, doi:10.5194/gmd-9-1341-2016.
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  - Lievens, H., De Lannoy, G.J.M., Al Bitar, A., Drusch, M., Dumedah, G., **Hendricks Franssen, H.J.**, Kerr, Y., Tomer, B., Martens, B., Merlin, O., Pan, M., Roundy, J.K., Vereecken, H., Walker, J.P., Wood, E.F., Verhoest, N.E.C., and V.R.N. Pauwels, 2016. Assimilation of SMOS soil moisture and brightness temperature products into a land surface model. *Remote Sensing of Environment*, doi:10.1016/j.rse.2015.10.1033.

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- **Hendricks Franssen, H.J.** and I. Neuweiler. 2015. Data assimilation for improved predictions of terrestrial systems. *Advances in Water Resources* 86, 257-259.
- Tang, Q., Kurtz, W., Brunner, P., Vereecken, H. and **H.J. Hendricks Franssen**. 2015. Characterization of river-aquifer exchange fluxes: the role of spatial patterns of riverbed hydraulic conductivities. *Journal of Hydrology* 531, 111-123.
- Simmer, C., Masbou, M., Thiele-Eich, I., Amelung, W., Crewell, S., Diekkrüger, B., Ewert, F., **Hendricks Franssen, H.J.**, Huisman, J.A., Kemna, A., Klitzsch, N., Kollet, S., Langensiepen, M., Löhnert, U., Mostaquimur Rahman, A. S. M., Rascher, U., Schneider, K., Schween, J., Shao, Y., Shrestha, P., Stiebler, M., Sulis, M., Vanderborght, J., Vereecken, H., van der Kruk, K., Waldhoff, G. and T. Zerenner. 2015. Monitoring and Modeling the Terrestrial System from Pores to Catchments – the Transregional Collaborative Research Center on Patterns in the Soil-Vegetation-Atmosphere System. *Bulletin of the American Meteorological Society*, 1765-1787.
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- Gebler, S., **Hendricks Franssen, H.J.**, Pütz, T., Post, H., Schmidt, M. and H. Vereecken, 2015. Actual evapotranspiration and precipitation measured by lysimeters: a comparison with eddy covariance and tipping buckets. *Hydrology and Earth System Sciences* 19(5), 2145-2161.

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A handwritten signature in blue ink, appearing to be 'HJA', with a horizontal line underneath.

**Harrie-Jan Hendricks Franssen, Julich, 17 September 2017**