

Regular Articles

- W07501** *Michael S. Riley, John H. Tellam, Richard B. Greswell, Véronique Durand, and Maria F. Aller*
Convergent tracer tests in multilayered aquifers: The importance of vertical flow in the injection borehole
(doi 10.1029/2010WR009838)
- W07502** *Monica Riva, Marco Panzeri, Alberto Guadagnini, and Shlomo P. Neuman*
Role of model selection criteria in geostatistical inverse estimation of statistical data- and model-parameters
(doi 10.1029/2011WR010480)
- W07503** *W. Z. Wan Jaafar, J. Liu, and D. Han*
Input variable selection for median flood regionalization (doi 10.1029/2011WR010436)
- W07504** *Mekonnen Gebremichael, Gong-Yi Liao, and Jun Yan*
Nonparametric error model for a high resolution satellite rainfall product (doi 10.1029/2010WR009667)
- W07505** *Efrat Morin*
To know what we cannot know: Global mapping of minimal detectable absolute trends in annual precipitation
(doi 10.1029/2010WR009798)
- W07506** *S. Assouline, K. Narkis, and D. Or*
Evaporation suppression from water reservoirs: Efficiency considerations of partial covers
(doi 10.1029/2010WR009889)
- W07507** *Gabrielle C. L. David, Ellen Wohl, Steven E. Yochum, and Brian P. Bledsoe*
Comparative analysis of bed resistance partitioning in high-gradient streams (doi 10.1029/2010WR009540)
- W07508** *Chandana Gangodagamage, Patrick Belmont, and Efi Foufoula-Georgiou*
Revisiting scaling laws in river basins: New considerations across hillslope and fluvial regimes
(doi 10.1029/2010WR009252)
- W07509** *Getnet Y. Muhye*
Deriving meteorological variables from numerical weather prediction model output: A nearest neighbor approach
(doi 10.1029/2010WR009750)
- W07510** *Zijie Liao and Olaf A. Cirpka*
Shape-free inference of hyporheic traveltime distributions from synthetic conservative and “smart” tracer tests in streams (doi 10.1029/2010WR009927)
- W07511** *Matthias Huss*
Present and future contribution of glacier storage change to runoff from macroscale drainage basins in Europe
(doi 10.1029/2010WR010299)
- W07512** *F. Rejiba, F. Sagnard, and C. Schamper*
Full-wave modeling of the time domain reflectometry signal in wetted sandy soils using a random microstructure discretization: Comparison with experiments (doi 10.1029/2010WR009688)
- W07513** *Molly S. Costanza-Robinson, Benjamin D. Estabrook, and David F. Fouhey*
Representative elementary volume estimation for porosity, moisture saturation, and air-water interfacial areas in unsaturated porous media: Data quality implications (doi 10.1029/2010WR009655)
- W07514** *Andrew C. Wilcox, Ellen E. Wohl, Francesco Comiti, and Luca Mao*
Hydraulics, morphology, and energy dissipation in an alpine step-pool channel (doi 10.1029/2010WR010192)

- W07515** *James B. Shanley, William H. McDowell, and Robert F. Stallard*
Long-term patterns and short-term dynamics of stream solutes and suspended sediment in a rapidly weathering tropical watershed (doi 10.1029/2010WR009788)
- W07516** *Étienne Boucher, Taha B. M. J. Ouarda, Yves Bégin, and Antoine Nicault*
Spring flood reconstruction from continuous and discrete tree ring series (doi 10.1029/2010WR010131)
- W07517** *L. P. H. van Beek, Yoshihide Wada, and Marc F. P. Bierkens*
Global monthly water stress: 1. Water balance and water availability (doi 10.1029/2010WR009791)
- W07518** *Yoshihide Wada, L. P. H. van Beek, Daniel Viviroli, Hans H. Dürr, Rolf Weingartner, and Marc F. P. Bierkens*
Global monthly water stress: 2. Water demand and severity of water stress (doi 10.1029/2010WR009792)
- W07519** *David Finger, Francesca Pellicciotti, Markus Konz, Stefan Rimkus, and Paolo Burlando*
The value of glacier mass balance, satellite snow cover images, and hourly discharge for improving the performance of a physically based distributed hydrological model (doi 10.1029/2010WR009824)
- W07520** *Timothy S. C. Rowan, Holger R. Maier, Jeff Connor, and Graeme C. Dandy*
An integrated dynamic modeling framework for investigating the impact of climate change and variability on irrigated agriculture (doi 10.1029/2010WR010195)
- W07521** *Juana Paul Moiwo, Yonghui Yang, Fulu Tao, Wenxi Lu, and Shumin Han*
Water storage change in the Himalayas from the Gravity Recovery and Climate Experiment (GRACE) and an empirical climate model (doi 10.1029/2010WR010157)
- W07522** *Qiming Zhou, Petter Pilesjö, and Yumin Chen*
Estimating surface flow paths on a digital elevation model using a triangular facet network (doi 10.1029/2010WR009961)
- W07523** *Valentijn R. N. Pauwels and Gabriëlle J. M. De Lannoy*
Multivariate calibration of a water and energy balance model in the spectral domain (doi 10.1029/2010WR010292)
- W07524** *K. Bogner and F. Pappenberger*
Multiscale error analysis, correction, and predictive uncertainty estimation in a flood forecasting system (doi 10.1029/2010WR009137)
- W07525** *Roy M. Frings, Holger Schüttrumpf, and Stefan Vollmer*
Verification of porosity predictors for fluvial sand-gravel deposits (doi 10.1029/2010WR009690)
- W07526** *Hanbo Yang and Dawen Yang*
Derivation of climate elasticity of runoff to assess the effects of climate change on annual runoff (doi 10.1029/2010WR009287)
- W07527** *Gregoire Mariethoz and Bryce F. J. Kelly*
Modeling complex geological structures with elementary training images and transform-invariant distances (doi 10.1029/2011WR010412)
- W07528** *Glenn A. Hodgkins and Robert W. Dudley*
Historical summer base flow and stormflow trends for New England rivers (doi 10.1029/2010WR009109)
- W07529** *S. Vandenberghe, N. E. C. Verhoest, C. Onof, and B. De Baets*
A comparative copula-based bivariate frequency analysis of observed and simulated storm events: A case study on Bartlett-Lewis modeled rainfall (doi 10.1029/2009WR008388)
- W07530** *Ken'ichirou Kosugi, Masamitsu Fujimoto, Shin'ya Katsura, Hiroyuki Kato, Yoshiki Sando, and Takahisa Mizuyama*
Localized bedrock aquifer distribution explains discharge from a headwater catchment (doi 10.1029/2010WR009884)
- W07531** *Trenton E. Franz, Elizabeth G. King, Kelly K. Caylor, and David A. Robinson*
Coupling vegetation organization patterns to soil resource heterogeneity in a central Kenyan dryland using geophysical imagery (doi 10.1029/2010WR010127)
- W07532** *Paolo Trinchero, Roger Beckie, Xavier Sanchez-Vila, and Craig Nichol*
Assessing preferential flow through an unsaturated waste rock pile using spectral analysis (doi 10.1029/2010WR010163)
- W07533** *Wei Zhang*
A 2-D numerical simulation study on longitudinal solute transport and longitudinal dispersion coefficient (doi 10.1029/2010WR010206)

- W07534** *Pei Xin, Li-Rong Yuan, Ling Li, and D. A. Barry*
Tidally driven multiscale pore water flow in a creek-marsh system (doi 10.1029/2010WR010110)
- W07535** *Yeboah Gyasi-Agyei*
Copula-based daily rainfall disaggregation model (doi 10.1029/2011WR010519)
- W07536** *David J. Hoekema and Venkataramana Sridhar*
Relating climatic attributes and water resources allocation: A study using surface water supply and soil moisture indices in the Snake River basin, Idaho (doi 10.1029/2010WR009697)
- W07537** *A. Rinaldo, K. J. Beven, E. Bertuzzo, L. Nicotina, J. Davies, A. Fiori, D. Russo, and G. Botter*
Catchment travel time distributions and water flow in soils (doi 10.1029/2011WR010478)
- W07538** *Dieter Rickenmann and Alain Recking*
Evaluation of flow resistance in gravel-bed rivers through a large field data set (doi 10.1029/2010WR009793)
- W07539** *Martyn P. Clark, Jordy Hendrikx, Andrew G. Slater, Dmitri Kavetski, Brian Anderson, Nicolas J. Cullen, Tim Kerr, Einar Örn Hreinsson, and Ross A. Woods*
Representing spatial variability of snow water equivalent in hydrologic and land-surface models: A review (doi 10.1029/2011WR010745)
- W07540** *Gabriele Chiogna, Olaf A. Cirpka, Peter Grathwohl, and Massimo Rolle*
Relevance of local compound-specific transverse dispersion for conservative and reactive mixing in heterogeneous porous media (doi 10.1029/2010WR010270)
- W07542** *K. R. Hultine and S. E. Bush*
Ecohydrological consequences of non-native riparian vegetation in the southwestern United States: A review from an ecophysiological perspective (doi 10.1029/2010WR010317)
- W07543** *B. Ahrenholz, J. Niessner, R. Helmig, and M. Krafczyk*
Pore-scale determination of parameters for macroscale modeling of evaporation processes in porous media (doi 10.1029/2010WR009519)
- W07544** *E. C. Jamieson, C. D. Rennie, R. B. Jacobson, and R. D. Townsend*
3-D flow and scour near a submerged wing dike: ADCP measurements on the Missouri River (doi 10.1029/2010WR010043)
- W07545** *Mohamed Hayek, Georg Kosakowski, and Sergey Churakov*
Exact analytical solutions for a diffusion problem coupled with a precipitation-dissolution reaction and feedback of porosity change (doi 10.1029/2010WR010321)
- W07546** *Minxue He, Terri S. Hogue, Kristie J. Franz, Steven A. Margulis, and Jasper A. Vrugt*
Corruption of parameter behavior and regionalization by model and forcing data errors: A Bayesian example using the SNOW17 model (doi 10.1029/2010WR009753)
- W07547** *Erwin Jeremiah, Scott Sisson, Lucy Marshall, Rajeshwar Mehrotra, and Ashish Sharma*
Bayesian calibration and uncertainty analysis of hydrological models: A comparison of adaptive Metropolis and sequential Monte Carlo samplers (doi 10.1029/2010WR010217)
- W07549** *Whitney DeFoor, Mark Person, Hans Christian Larsen, Daniel Lizarralde, Denis Cohen, and Brandon Dugan*
Ice sheet-derived submarine groundwater discharge on Greenland's continental shelf (doi 10.1029/2011WR010536)
- W07550** *D. E. Reusser and E. Zehe*
Inferring model structural deficits by analyzing temporal dynamics of model performance and parameter sensitivity (doi 10.1029/2010WR009946)
- W07551** *D. E. Reusser, W. Buytaert, and E. Zehe*
Temporal dynamics of model parameter sensitivity for computationally expensive models with the Fourier amplitude sensitivity test (doi 10.1029/2010WR009947)

Technical Notes

- W07601** *A. C. Petrides, J. Huff, A. Arik, N. van de Giesen, A. M. Kennedy, C. K. Thomas, and J. S. Selker*
Shade estimation over streams using distributed temperature sensing (doi 10.1029/2010WR009482)

Data and Analysis Notes

- W07701** *Brice Boudevillain, Guy Delrieu, Bruno Galabertier, Laurent Bonnifait, Ludovic Bouilloud, Pierre-Emmanuel Kirstetter, and Marie-Laure Mosini*
The Cévennes-Vivarais Mediterranean Hydrometeorological Observatory database (doi 10.1029/2010WR010353)
- W07702** *Michele L. Reba, Danny Marks, Mark Seyfried, Adam Winstral, Mukesh Kumar, and Gerald Flerchinger*
A long-term data set for hydrologic modeling in a snow-dominated mountain catchment
(doi 10.1029/2010WR010030)

There is no **W07541**, **W07458**, and **W07602** in this issue.

Special Sections in Progress

The Author Index appears at the end of the issue.