

Sven Wagner, IMK-IFU

Peer reviewed publications

- Wagner S., Kunstmann H., Bárdossy A., Conrad C., Colditz R. (2008): *Water balance estimation of a poorly gauged catchment in West Africa using dynamically downscaled meteorological fields and remote sensing information*. Phys.Chem. Earth (2008), doi:10.1016/j.pce.2008.04.002.
- Wagner S., Kunstmann H., Bárdossy A. (2007): *Uncertainties in water balance estimations due to scarce meteorological information: a case study for the White Volta catchment in West Africa*. Proceedings of Symposium HS2004 at IUGG2007, Perugia, July 2007. IAHS Publ. 313.
- Kunstmann H., Jung G., Wagner S., Clotey H. (2007): *Integration of Atmospheric Sciences and Hydrology for the Development of Decision Support Systems in Sustainable Water Management*. Physics and Chemistry of the Earth, doi:10.1016/j.pce.2007.04.010.
- Wagner S., Kunstmann H., Bárdossy A. (2006): *Model based distributed water balance monitoring of the White Volta catchment in West Africa through coupled meteorological-hydrological simulations*. Advances in Geosciences Volume 9, pp. 39-44.

Submitted articles in reviewed journals:

- Laux P., Wagner S., Wagner A., Kunstmann H., Bárdossy A.: *Modelling daily precipitation features for agricultural planning in the Volta basin*. Submitted to International Journal of Climatology.

Conference contributions

- Wagner S., Kunstmann H., and Bárdossy A. (2008): *Propagation of precipitation uncertainties in water balance estimations*. Geophysical Research Abstracts, Vol. 10, EGU2008-A-03785, EGU General Assembly, Vienna (poster presentation).
- Wagner S., Kunstmann H., and Bárdossy A., Conrad C., Colditz R. (2007): *Water balance estimation in a poorly gauged basin using atmospheric modelling and remote sensing information*. AMMA 2nd International Conference, Karlsruhe, Germany (oral presentation).
- Wagner S., Kunstmann H., and Bárdossy A. (2007): *Uncertainties in water balance estimations due to scarce meteorological information: a case study for the White Volta catchment in West Africa*. IUGG, Perugia, Juli 2007 (poster presentation).
- Wagner S., Kunstmann H., and Bárdossy A., Conrad C. (2007): *Water balance simulations in a poorly gauged basin using different meteorological and land surface data sources*. Geophysical Research Abstracts, Vol. 9, 08304, EGU General Assembly, Vienna (oral presentation).

- Kunstmann H., Wagner S., Jung G., Laux P., Clotey H. (2006): *A New Hydrometeorological Decision Support System for Sustainable Water Management in the Volta Basin*. GLOWA-Volta Incentive Workshop in Accra/Ghana (oral presentation).
- Wagner S., Kunstmann H., Bárdossy A. (2006): *Model based distributed water balance monitoring of the White Volta Basin in West Africa through coupled meteorological-hydrological simulations*. AMMA-EU and AMMA France meeting on Land-surface processes, Garmisch-Partenkirchen (poster presentation).
- Wagner S., Kunstmann H., Laux P., Jung G. (2006): *Hydrometeorological Decision Support for Sustainable Water Management*. Beitrag zur Veranstaltungsreihe der GTZ „Betrifft Wasser: EZ trifft Wissenschaft“ (poster presentation).
- Kunstmann H., Wagner S., Jung G., Laux P., Clotey H. (2006): *Integration of Atmospheric Sciences and Hydrology for the Development of Decision Support Systems in Sustainable Water Management*. Geophysical Research Abstracts, Vol. 8, 03434, EGU General Assembly, Vienna (oral presentation).
- Wagner S., Kunstmann H., Bárdossy A., Clotey H. (2006): *Model based distributed water balance monitoring for the White Volta catchment in West Africa through coupled meteorological-hydrological simulations*. Geophysical Research Abstracts, Vol. 8, 03607, EGU General Assembly, Wien (oral presentation).
- Wagner S., Kunstmann H., Bárdossy A. (2005): *Gekoppelte meteorologisch-hydrologische Simulationen zur flächendifferenzierten Wasserhaushaltsbilanzierung am Bsp. Volta/Westafrika*. 9. Workshop zur großskaligen Modellierung in der Hydrologie in Freudenstadt (oral presentation).
- Kunstmann H., Wagner S. (2005): *WaSiM Anwendungen und Erweiterungen*. WaSiM-Workshop in Zürich (poster presentation).

Other publications

- Wagner S., Bárdossy A., Appt J., Schickedanz U. (2004): *Räumlich statistische Untersuchung der Windverhältnisse auf dem Bodensee auf der Grundlage an Land gemessener Winde und des Windes in der freien Atmosphäre*. WB 2004/13, Institut für Wasserbau, Universität Stuttgart