CV of Professor Axel Bronstert

Axel Bronstert holds the Chair of Hydrology and Climatology at University of Potsdam, and has 20 years of professional experience in hydrological modelling, hydrological field investigations, integrated modelling and hydraulic modelling, with special emphasis on river-catchment interactions, phenomena of environmental change (such as climate and land-use changes), and integrated flood-risk analysis and modelling. He has jointly worked in comprehensive research projects, both nationally and internationally. He has published extensively over the past years on hydrological, hydro-climatological and interdisciplinary hydro-scientific issues. He is associated editor of *Journal of Hydrology, Hydrology and Earth System Sciences, Hydrological Processes,* and *Hydrologie und Wasserbewirtschaftung.* Prof. Bronstert was an invited visiting professor at the Technical Univ. of Catalonia (Barcelona), Appl. Geosciences Dept. in 2005 and has won two academic prizes. He is member of the German Commission on Water Research of DFG (KOWA) and has been elected recently as the president of the German Hydrological Society (DHG).

Prof. Bronstert has a side-appointment at the Potsdam-Institute for Climate Impact Research (PIK), where he acts as co-chair of the water research group. His main research involvement at PIK is regional hydrological modelling and hydrological impact assessments.

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Education and Employment		
From (year)	**to (year)**	
Since 2011		President of the German Hydrological Society
Since 3/2011		Member of the German Commission on Water Research (by DFG)
2007	2009	Director of the Institute for Geo-Ecology, University of Potsdam, Germany
2005	present	Director of the *Interdisciplinary Centre for Pattern Dynamics and Applied Remote Sensing (IMAF)*, University of Potsdam
2003	2009	co-chair of the Hydrology Group, Potsdam-Inst. For Climate Impact Research (PIK), Potsdam
2001	2005	Member of the commission for research, University of Potsdam, Germany
2002	2004	Director of the Institute for Geo-Ecology, University of Potsdam, Germany
2000	2001	Director of the *Centre for Environmental Research*, University of Potsdam
2000	present	Professor for Hydrology and Climatology at the Inst. For Geo-Ecology, University of Potsdam (teaching: hydrology, climatology, fluvial hydraulics, hydrological and hydro-ecol. Modelling)
1995	2000	Researcher at the Potsdam Institute for Climate Impact Research (PIK): (hydrological modelling; impact of climate change on the hydrological cycle; interdisciplinary integrated modelling)
1995	1999	Lecturer at the Technical University Berlin and the Free University of Berlin

1988	1995	Researcher at the Institute for Hydrology and Water Resources Management, University of Karlsruhe (hydrological modelling; water resources management)
1986	1987	Post graduate research at Kyoto University, Chair of Hydraulics, Faculty of Engineering (numerical modelling; geostatistics)
1994		Doctoral Thesis: “Modelling runoff generation and soil moisture dynamics at the hillslope scale”, grade: “summa cum laude” (with excellence)
1988	1995	Research assistant at the Institute for Hydrology and Water Resources Management, University of Karlsruhe (hydrological modelling; water resources management)
1986	1987	Post graduate research at Kyoto University, Chair of Hydraulics, Faculty of Engineering (numerical modelling; geostatistics)
1985	1986	Diploma Thesis: “Investigation of water resources management options to improve the flooding conditions in the Schutter-Unditz flooding area” June 1986 termination of the studies (Diploma)
1978	1986	Study of civil engineering and water resources at Karlsruhe University, Germany

Research *(main areas)*
Hydrological process research
Flood research
Hydrology of semi-arid areas
Impacts of anthropogenic activities on the hydrological cycle
Water management
Water quality of surface waters, interdisciplinary & integrated modelling

Projects (until 12/2010)
Funded by BMBF (German Federal Ministry for Education and Research):
Potsdam Research Cluster for Georisk Analysis, Environmental Change and Sustainability (PROGRESS): Sub-Project D2.2 Radargestützte Schätzung und Vorhersage von Starkniederschlägen (1 ½ Post-Doc, 1 Phd-student) & Sub-project B1.2 “Wasserverfügbarkeit in der Alpenregion unter dem Klimawandel” (1 Phd-student); Start: 10/2009
Potsdam Research Cluster for Georisk Analysis, Environmental Change and Sustainability (PROGRESS): Sub-Project Sub-project B1.3 „Hydro-meteorologische Extreme in Zentraleuropa“ (1 Phd-student); Start: 10/2009;
“Hydrological Optimization of Rice Production Technologies: Evaluation and Decision Support for Efficient Resource Use and Reduced Emissions in India: Definition Project”; FKZ: 01RD1007A; Duration: 02/2011-07/2911
„Comtess: Verbundvorhaben: Nachhaltiges Küstenzonenmanagement - Vergleichende Untersuchung von Ökosystemdienstleistungen - Teilvorhaben: Süßwasserdynamik ” FKZ: 01LL0911C; Start: 05/2011;
“Assessment of management strategies for flash flood and reservoir siltation problems in the Tensift basin“. IB/BMBF: Bilateral Cooperation in Education Project. GZ: MAR 10/006; 03/2011-07/2012;
Operationelle Abfluss- und Hochwasservorhersage in Quellgebieten“ (Operational flood forecast in headwater catchments). Duration: Pre-Phase: 11/2004 – 05/2005; Duration 08/ 05 – 12/09 Participating staff: Dr. S. Itzerott (pre-phase); main phase (at Potsdam Univ.): 2 post-docs, 3 PhD-students
„Bewirtschaftungsmöglichkeiten im Einzugsgebiet der Havel“ (Water managment options in the Havel region) (BMBF FKZ:0330227); large compound projekt with 7 sub-projects. Director of the whole project and of two sub-projects: A. Bronstert; Duration: 10/2002 – 2/2005; participating staff: Dr. K. Kaden, Dipl.-Geoök. S. Krause, Dipl.-Geoök. D. Kneis
„Möglichkeiten zur Minderung des Hochwasserrisikos durch Nutzung von Flutpoldern an Havel und Oder“ (Options for flood risk mitigation through polder use at the Havel and Oder rivers). Duration: 10/03 – 01/04; particip. Staff: Dipl.-Phys. W.Sauer, Dipl.-Geoök. S.Förster, Dipl.-Geoök. D.Kneis
Untersuchungen zum Einfluss von Klimaänderungen und Landnutzung auf die Hochwassersituation im Rheingebiet (sub-project within the German Research Network for natural disasters; duration: 01/ 2000 – 12 / 2002; participating staff: Dr. L. Menzel, Dr. G. Bürger

„Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil". Sub-Project Integrated Modelling. Duration: Pre-phase: 1995-1996); 1st main phase: 1997- 1999; 2nd main phase: 1999- 2001; particip. Staff: Dr. M. Krol, Dipl.-hydr. A. Güntner, Dipl.Phys. A, Jaeger
Research project with the CSIRO, Division of Water Res. And Centre for Catchment Hydrology in Canberra, Australia "distributed and physically based hydrological modelling" BMBF + CSIRO Water Resources, Division Canberra, Duration: 1994-1995
„Prognosemodell für die Gewässerbelastung durch Stofftransport aus einem kleinen ländliches Einzugsgebiet" (Modelling of water contamination in a small agricultural catchment). Sub-project: Development of the overall model. Duration: 3/1993-9/1995)
„Prognosemodell für die Gewässerbelastung durch Stofftransport aus einem kleinen ländliches Einzugsgebiet" (Modelling of water contamination in a small agricultural catchment). Sub-project: development of a hillslope model. Duration: 10/1989 – 2/1993
Funded by DFG (German Science Foundation):
Generation, transport and retention of water and suspended sediments in large dryland catchments: Monitoring and integrated modelling of fluxes and connectivity phenomena (DFG 1731/11-1 und DFG FO 754/ 1-1). Start: 10/2010;
"Sediment Export from large Semi-Arid catchments: Measurements and Modelling (SESAM)". (DFG BR 1731/3-1-2 & 4-1-2.). Project in co-operation with GeoForschungszentrum Potsdam, University Lleida, University of Ceará (Brazil). Duration: 3 years, since 12/2004; participating staff: Dr. E. Müller, Dipl.-Geoök. T. Francke, Dipl.-Ing. G. Mamede
"Szenarien hydrologischer Extreme – 2d Downscaling von Klimamodellen auf tägliche Niederschläge mit Anwendungen in der Hydrologie" (extreme hydrological scenarios, 2-d downscaling of climate models to daily precipitations rates with hydrological applications (DFG FKZ: BU 728/2-1/2-2); together with Dr. Bürger, PIK; Duration: 6/2001 - 5/2004; particip. staff r: Dr. G. Bürger, Dr. Y. Chen
"Modellgestützte Erforschung der lateralen Abflüsse und ihrere Wechselbeziehungen zur Bodenfeuchte" (model based investigation of lateral runoff and the interactions with soil moisture); (DFG FKZ: BE 1575/4-1 ... 4-4); Project together with Dr. Becker, PIK; Duration: 8/1998 - 7/2002; participating staff: Dipl.-Ing. J-P. Schäfermeyer
Funded by the European Union
Integrated Flood Risk Analysis and Management Methodologies (Floodsite), Sub-project. Case study "Lowland range of the Elbe river"; (Integrated Project of the EU, DG XII, 6h Framework) Duration: 03 /2004- 0 /2009). participating staff: Dipl.-Geoök. S. Förster
Funded by other Sources
"Expanded Downscaling for the Lech Catchment: Software Adaptation, Instruction and Scientific Supervision". Duration: 1/2010 to 12/2010; (Research cooperation contract with University of Innsbruck)
"H05 HoPI II (Programm COMET) – Part Potsdam". Duration: 4/2010 to 3/2014; (Research cooperatuion contract with AlpS, Innsbruck)
Sensitivity of the Runoff Characteristics of Small Alpine Catchments to Climate Change: *„Expanded Downscaling" (EDS) für größere zeitliche Auflösung und für Gebirgsregionen charakteristische Besonderheiten.* (Research cooperation contract with University of Innsbruck)

Honours and Awards
"Ehrensenator Huber Prize 1995" of Karlsruhe University for an excellent dissertation, 1995
Research scholarship of the Japanese Ministry for research and Education (MONBUSHO) at Kyoto University, Japan; 1986 - 1987
"Ehrensenator Huber Prize 1987" of Karlsruhe University for outstanding studies, 1987

Publications *(last five years);*
COSTA, A.C., BRONSTERT, A., DE ARAÚJO, JC.: A channel transmission losses model for different dryland rivers. *Hydrology and Earth System Sciences Discussions*, (in review).
VAN SCHAIK, N.L.M.B., BRONSTERT, A., DE JONG, S.M., JETTEN, V.G., VAN DAM, J.C., RITSEMA, C.J., S. SCHNABEL, S. (2011): Process-based modelling of a headwater catchment in semi-arid conditions: the influence of macropore flow. *Hydrological Processes*, (in review).

HUANG, S., HATTERMANN, F., KRYSANOVA, V., BRONSTERT, A. (2011): Projections of climate change affected river flood conditions in Germany by combining three different RCMs with a regional hydrological model. *Climatic Change*, (in review).

COSTA, A.C., BRONSTERT, A., DE ARAÚJO, JC.: A channel transmission losses model for different dryland rivers. *Hydrology and Earth System Sciences Discussions*, (in review).

COSTA, A.C., FÖRSTER, S., DE ARAÚJO, JC., BRONSTERT, A.: Analysis of channel transmission losses in a dryland river reach in northeastern Brazil using stream flow series, groundwater level series and multi-temporal satellite data. *Hydrological Processes*, (in review).

COSTA, A.C., BRONSTERT, A., KNEIS, D.: Probabilistic flood forecasting for a mountainous headwater catchment using a nonparametric stochastic dynamic approach. *Hydrological Scienc Journal* (in press)

KNEIS, D., BÜRGER, G., BRONSTERT, A.: Evaluation of medium-range runoff forecasts for a 50 km² watershed. *Journal of Hydrology*, 414-415, 341-353.

BRONSTERT, A., CREUTZFELDT, B., GRAEFF, T., HAJNSEK, I., HEISTERMANN, M., ITZEROTT, S., JAGDHUBER, T., KNEIS, D., LÜCK, E., REUSSER, D., ZEHE, E. (2012): Potentials and constraints of different type of soil moisture observations for flood simulations in headwater catchments. *Natural Hazards*, 60, 879-914. DOI 10.1007/s11069-011-9874-9

IROUMÉ, A., CAREY, P., BRONSTERT, A., HUBER, A., PALACIOS, H. (2011): GIS application of USLE and MUSLE to estimate erosion and suspended sediment load in experimental catchments, Valdivia, Chile. *Revista téecnica de la Facultad de Ingeniería, Universidad del Zulia*, 34, 119 -128.

ZEHE, E., GRAEFF, T., MORGNER, M., BAUER, A., BRONSTERT, A. (2010): Plot and field scale soil moisture dynamics and subsurface wetness control on runoff generation in a headwater in the Ore Mountains. *Hydrology and Earth System Sciences*, 14, 873-889.

GRAEFF, T., ZEHE, E., SCHLAEGER, S., MORGNER, M., BAUER, A., BECKER, R., CREUTZFELDT, B., BRONSTERT, A. (2010): A quality assessment of Spatial TDR soil moisture measurements in homogenous and heterogeneous media with laboratory experiments. *Hydrology and Earth System Sciences*, 14, 1007-1020.

Müller, EN., Francke, T., Batalla, RJ., Bronstert, A.(2009): Modelling the effects of land-use change on runoff and sediment yield for a meso-scale catchment in the Southern Pyrenees. *Catena*, 79, 288-296.

BRONSTERT, A., KNEIS, D., BOGENA, H. (2009): Interaktionen und Rückkopplungen beim hydrologischen Wandel: Relevanz und MÄoglichkeiten der Modellierung. *Hydrologie und Wasserbewirtschaftung*, 53(5), 289-304.

Blume, T., Zehe, E., Bronstert, A. (2009): Use of soil moisture dynamics and patterns at different spatio-temporal scales for the investigation of subsurface flow processes. *Hydrology and Earth System Sciences*, 13, 1215-1234.

KNEIS, D., FÖRSTER, S., BRONSTERT, A. (2009): Simulation of water quality in a flood detention area using models of different spatial discretisation. *Ecological Modelling*, 220(13-14), 1631-1642.

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GRAEFF, T., ZEHE, E., REUSSER, D., LÜCK, E., SCHRÖDER, B., BRONSTERT, A. (2009): Process identification through rejection of model structures in a mid-mountainous rural catchment: observations of rainfall-runoff response, geophysical conditions and model inter-comparison *Hydrological Processes*, 23(5), 702-718.

HUISMAN, J.A., BORMANN, H., BREUER, L., BRONSTERT, A., CROKE, B.F.W., FREDE, H., GRÄFF, T., HUBRECHTS, L., JAKEMAN, A.J., KITE, G., LANINI, J., LEAVESLEY, G., LETTENMAIER, D.P., LINDSTRÖM, G., SEIBERT, J., SIVAPALAN, M., VINEY, N.R., WILLEMS, P. (2009): Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) III: scenario analysis, Advances in Water Resources 32(2), 159-170.

VINEY, N.R., BORMANN, H., BREUER, L., BRONSTERT, A., CROKE, B.F.W., FREDE, H., GRÄFF, T., HUBRECHTS, L., HUISMAN, J.A., JAKEMAN, A.J., KITE, G., LANINI, J., LEAVESLEY, G., LETTENMAIER, D.P., LINDSTRÖM, G., SEIBERT, J., SIVAPALAN, M., WILLEMS, P. (2009): Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM)II: Ensemble

combinations and predictions, Advances in Water Resources 32(2), 147-158.

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MÜLLER, E.N., BATALLA, R., GARCIA, C. BRONSTERT, A. (2008): Modelling bedload transport from fine grain size patches during small floods in a gravel-bed river. *Journal of Hydraulic Engineering* 134: 1430-1439

BLUME, T., ZEHE, E., REUSSER, D., IROUMÉ, A., BRONSTERT, A. (2007): Investigation of runoff generation in a pristine, poorly gauged catchment in the Chilean Andes I: A multi-method experimental study. *Hydrological Processes*, 22, 3676-3688..

BLUME, T., ZEHE, E., BRONSTERT, A. (2007): Investigation of runoff generation in a pristine, poorly gauged catchment in the Chilean Andes II: Qualitative and quantitative use of tracers at three different spatial scales. *Hydrological Processes*, 22, 3661-3675.

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FÖRSTER, S., CHATTERJEE, C., BRONSTERT (2007): Hydrodynamic Simulation of the Operational Management of a Proposed Flood Emergency Storage Area at the Middle Elbe River. *River Research and Applications*, 24, 900-913.

KRAUSE, S., BRONSTERT, A., ZEHE, E. (2007): The impact of groundwater – surface water interactions on the nitrate retention of a riparian floodplain in North Germany. *Journal of Hydrology*, 347(3-4), 404-417

BLUME, T., ZEHE, E., BRONSTERT, A. (2007): Use of soil moisture dynamics and patterns for the investigation of runoff generation processes with emphasis on preferential flow Hydrology and Earth System Sciences - Discussions, 4, 2587-2624. http://www.hydrolearth-syst-sci-discuss.net/4/2587/2007/hessd-4-2587-2007.pdf

BRONSTERT, A., KOLOKOTRONIS, V., SCHWANDT, D., STRAUB, H. (2007): Comparison and Evaluation of regional climate scenarios for hydrological impact analysis: general scheme and application example. International Journal of Climatology, 27, 1579-1594.

BLUME, T., ZEHE, E., BRONSTERT, A. (2007): Rainfall-runoff response, event-based runoff coefficients and hydrograph separation. Hydrological Sciences Journal, 52(5), 843- 862.

BRONSTERT, A., BÁRDOSSY, A., BISMUTH, C., BUITEVELD, H., DISSE, M., ENGEL, H., FRITSCH, U., HUNDECHA, Y., LAMMERSEN, R., NIEHOFF, D., RITTER N. (2007): Multi-scale modelling of land-use change and river training effects on floods in the Rhine basin. River Research and Applications, 23(10), 1102-1125.

KRAUSE, S., JACOBS, J., BRONSTERT, A. (2007): Modelling the impacts of land-use and drainage density on the water balance of a lowland- floodplain landscape in Northeast Germany. Ecological Modelling, 200(3-4), 475-492.

KRAUSE, A., BRONSTERT, A. (2007): The impact of groundwater - surface water - interactions on the water balance of a mesoscale lowland river catchment in Northeastern Germany. Hydrological Processes, 21(2), 169-184. DOI: 10.1002/hyp.6182

KROL, M.S., BRONSTERT, A. (2007): Regional integrated modelling of climate change impacts on natural resources and resource usage in semiarid Northeast Brazil. Environmental Modelling & Software, 22, 259-268. doi:10.1016/j.envsoft.2005.07.022.

HATTERMANN, F., CONRADT, T., BRONSTERT, A. (2007): Berechnung großkaliger Verdunstung unter den Bedingungen des globalen Wandels. Forum für Hydrologie und Wasserbewirtschaftung, Heft 21 , 231-245.

KRAUSE, S., BRONSTERT, A., ZEHE, E. (2007): Groundwater-surface water exchange fluxes in a Pleistocene lowland and the impacts on riparian zone water balance and nitrate conditions. Water

Quality and Sediment Behaviour of the Future: Predictions for the 21st Century, IAHS-Publications No. 314, Wallingford (GB), 98-107.

GUSE, B., BRONSTERT, A., RODE, M., TETZLAFF, B., WENDLAND, F. (2007): Comparison of two phosphorus models with different complexity in a mesoscale catchment Advances in Geosciences, 11, 77-84.

LINDENSCHMIDT, K.-E., HATTERMANN, F., MOHAUPT, V, MERZ, B., KUNDZEWICZ, Z.W., BRONSTERT, A. (2007): Large-scale hydrological modelling and the Water Framework Directive and Floods Directive of the European Union. Advances in Geosciences, 11, 1-6.

MAMEDE, G., DE ARAÚJO, J.C., BRONSTERT, A.(2007): Global Change Scenarios in the Prediction of Reservoir Sedimentation and Water Availability. IAHS-Publications No. 317, Wallingford (GB), 137-141.

BRONSTERT, A., BATALLA, RJ., DE ARAÚJO, J.C., FRANCKE, T., GÜNTNER, A., MAMEDE, G., MÜLLER, E. (2007): Investigating erosion and sediment transport from headwaters to catchments to reduce reservoir siltation in drylands. IAHS-Publications No. 317, Wallingford (GB), 119-122.

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KNEIS, D., KNOESCHE, R., BRONSTERT, A. (2006): Analysis of Nutrient Retention and Management for a Lowland River. Hydrology and Earth System Sciences, 10, 575-588. www.hydrol-earth- syst-sci.net/10/575/2006/.

KROL, M.S., JAEGER, A., BRONSTERT, A., GÜNTNER, A. (2006): Integrated modelling of climate, water, soil, agricultural and socio-economic processes: a general introduction of the methodology and some exemplary results from the semi-arid Northeast of Brazil. Journal of Hydrology, 328, 417-431. doi:10.1016/j.jhydrol.2005.12.021

DE ARAÚJO, J.C., GÜNTNER, A., BRONSTERT, A. (2006): Impact of reservoir silting on water availability in a semiarid region. Hydrological Sciences Journal, 51(1), 157-170.

HATTERMANN, F.F., KRYSANOVA, V., HABECK, A., BRONSTERT, A. (2006): Integrating wetlands and riparian zones in river basin modelling. Ecological Modelling, 199(4), 379- 392.

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