

Monday, June 16, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)				Monday, June 16, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kavai	Maui	Oahu
Stream G - Data Mining and Algorithms for Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling	Stream D - GIS and Visualization	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream H - Applications of Environmental Modeling
Session G1 - Using Simulation Models to Improve Understanding of Environmental Systems	Session C1 - Complexity, Sensitivity, and Uncertainty Issues in Integrated Environmental Models	Session H5 - Systems Modeling and Climate Change: A Systematic Methodology for Disentangling Elements of Vulnerability, Adaptation and Adaptive Capacity	Session D1 - GIS and Environmental Modeling for Decision Support	Session B1 - Research Infrastructures for Integrated Environmental Modeling	Session A1 - Leveraging Cyberinfrastructure to Advance Scientific Productivity and Reproducibility in the Water Sciences	Session H1 - Environmental Modeling, Software, and Data to Support Quantitative Microbial Risk Assessments (QMRAs)	
Moderator - Richard Hooper	Moderator - Jim Ascough	Moderator - Russell Richards	Moderator - Rüdiger Schaldach	Moderator - Antonio Parodi	Moderator - Jonathan Goodall	Moderator - Yakov Pachepsky	
A k-means clustering approach to assess wheat yield prediction uncertainty with a HYDRUS-1D coupled crop model* <i>Derek Groenendyk, Kelly Thorp, Ty P. A. Ferre, Wade Crow and Doug Hunsaker</i>	Investigating Parameter Sensitivity for Management in Snow-Driven Watersheds* <i>Elizabeth Houle and Joseph Kasprzyk</i>	Engaging Australian Surf Lifesaving in coastal hazard and climate change adaptation with stakeholder driven modelling* <i>Marcello Sano, Russell Richards, Oz Sahin, Shauna Sherker and Rodger Tomlinson</i>	PV Site Suitability: Using GIS Analytics to Evaluate Utility-Scale Solar Power Potential in the United States <i>Justin Brewer, Daniel Ames, David Solan and Randy Lee</i>	Toward Integrated Environmental Modeling Using Research Data Infrastructures* <i>Jeffery S. Horsburgh</i>	The CSDMS Standard Names: Cross-Domain Naming Conventions for Describing Process Models, Data Sets and Their Associated Variables* <i>Scott D. Peckham</i>	The QMRA Wiki: A Social Media Tool for Interdisciplinary and Interagency Collaboration for Quantitative Microbial Risk Assessment* <i>Jade Mitchell, Mark H. Weir, Wietske van Osch and Joan Rose</i>	Workshop H1 - Workshop on Spatially Explicit Land-Use Modeling
Defining the spatiotemporal surveillance space for alien species' invasions using approximate Bayesian computation* <i>Grant Hamilton, Rune Rasmussen, Jana Mullerová, Jan Pergl and Petr Pyšek</i>	Multiscale Spatial Sensitivity Analysis for Agent-Based Modelling of Coupled Landscape and Aquatic Systems* <i>Arika Ligmann-Zielinska, Wei Liu, Daniel B. Kramer, Kendra Spence Cheruvellil, Patricia A. Soranno, Piotr Jankowski and Seda Salap</i>	App2Adapt: Using Tablet Technology to Elicit Conditional Probabilities for Bayesian Belief Network Modelling* <i>Russell Richards, Oz Sahin, Marcello Sano, Jan-Olaf Meynecke and Rachel Tiller</i>	An environmental modeling language for agents and fields* <i>Kor de Jong, Merijn de Bakker and Derek Karssenber</i>	Agile Workflows for Climate Impact Risk Assessment based on the cigrasp Platform and the jABC Modeling Framework* <i>Samih Al-Areqi, Steffen Kriewald, Anna-Lena Lamprecht, Dominik Reusser, Markus Wrobel and Tiziana Margaria</i>	Water Science Software Institute: Conceptualizing Better Scientific Software Development <i>Stan Ahalt, Laura Christopherson and Ray Idaszak</i>	Using integrated environmental modeling to automate a process-based Quantitative Microbial Risk Assessment* <i>Gene Whelan, Keewook Kim, Rajbir Parmar, Kurt Wolfe, Mike Galvin, Paul Duda, Mark Gray, Marirosa Molina, Richard Zepp, Yakov Pachepsky, Lourdes Prieto and Brenda Kitchens</i>	
The data processing inequality and environmental model prediction* <i>Steven V. Weijs</i>	Sensitivity and uncertainty analysis of a plant-wide model for carbon and energy footprint of wastewater treatment plants* <i>Giorgio Mannina, Alida Cosenza, Riccardo Gori, Reza Sobhani, Manel Garrido and Diego Rosso</i>	Addressing the water-energy-climate nexus conundrum: A systems approach* <i>Oz Sahin, Rodney Stewart and Russell Richards</i>	GIS-based environmental modeling with tangible interaction and dynamic visualization* <i>Anna Petrasova, Brendan Harmon, Vaclav Petras and Helena Mitasova</i>	The FluidEarth 2 Implementation of OpenMI 2.0 <i>Quillon Harpham, Paul Cleverley and David Kelly</i>	Improving Integrated Modelling reproducibility and traceability with workflow systems <i>Peter Fitch, Nicholas Car and Timothy Smith</i>	The Effect of Recovery on Modeling Inactivation of Bacillus Spores on HVAC Filters* <i>Bharathi Murali and Jade Mitchell</i>	
Agent-Based Virtual Laboratories for a Novel Experimental Approach to Socio-Environmental Synthesis* <i>Nicholas Magliocca, Mary Shelley and Mike Smorul</i>	Calibration of simulation platforms including highly interweaved processes: the MAELIA multi-agent platform* <i>Romain Lardy, Pierre Mazzega, Christophe Sibertin-Blanc, Yves Auda, José-Miguel Sanchez-Perez, Sabine Sauvage and Olivier Therond</i>	An Integrated Approach for Including Social Capacities, and Economic Valuation in Risk Assessment of Water Related Hazards in Uncertain Scenarios* <i>Carlo Giupponi, Vahid Mojtaheed, Animesh Gain, Stefano Balbi and Claudio Biscaro</i>	Managing agricultural landscapes for favouring ecosystem services provided by biodiversity: a spatially explicit model of crop rotations in the GAMA simulation platform* <i>Hugo Thierry, Aude Vialatte, Jean-Philippe Choisis, Benoit Gaudou and Claude Monteil</i>	Linking water resource network models to an open data management platform* <i>Philipp Meier, Stephen Knox and Julien J. Harou</i>	Metadata for Describing Water Models* <i>Mohamed Morsy, Jonathan Goodall, Christina Bandaragoda, Anthony Castronova and Jane Greenberg</i>		
Monday, June 16, 2014 – Block 2 (10:40 a.m. – 12:00 p.m.)				Monday, June 16, 2014 – Block 2 (10:40 a.m. – 12:00 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kavai	Maui	Oahu
Stream G - Data Mining and Algorithms for Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling	Stream D - GIS and Visualization	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream F - Software and Model Design
Session G1 - Using Simulation Models to Improve Understanding of Environmental Systems	Session C1 - Complexity, Sensitivity, and Uncertainty Issues in Integrated Environmental Models	Session H5 - Systems Modeling and Climate Change: A Systematic Methodology for Disentangling Elements of Vulnerability, Adaptation and Adaptive Capacity	Session D1 - GIS and Environmental Modeling for Decision Support	Session B1 - Research Infrastructures for Integrated Environmental Modeling	Session A1 - Leveraging Cyberinfrastructure to Advance Scientific Productivity and Reproducibility in the Water Sciences	Session H1 - Environmental Modeling, Software, and Data to Support Quantitative Microbial Risk Assessments (QMRAs)	
Moderator - Richard Hooper	Moderator - Francesca Pianosi	Moderator - Oz Sahin	Moderator - Rüdiger Schaldach	Moderator – Quillon Harpham	Moderator - Jonathan Goodall	Moderator - Gene Whelan	
Modeling farm-level adaptation decisions under rising unawareness: smallholder farming systems in Ethiopia <i>Thilak Mallawaarachchi, John Asafu-Adjaye and Menale Kassie</i>	Feedback versus uncertainty* <i>Ronald R. P. van Nooijen, Markus Hrachowitz and Alla Kolechkina</i>	Estimating the benefits of early warning systems in reducing urban flood risk to people: a spatially explicit Bayesian model* <i>Stefano Balbi, Ferdinando Villa, Vahid Mojthaed and Carlo Giupponi</i>	A model-independent open-source geospatial tool for managing point-based environmental model simulations at multiple spatial locations* <i>Kelly Thorp</i>	Plug and Play Component Modeling – The CSDMS2.0 Approach* <i>James Syvitski, Eric Hutton, Mark Piper, Irina Overeem, Albert Kettner and Scott Peckham</i>	Web service and plug-in architecture for flexibility and openness of environmental data sharing platforms* <i>Stephen Knox, Philipp Meier and Julien Harou</i>	Applications of Quantitative Microbial Risk Assessment (QMRA) to Regulatory Decision Making* <i>Adam Olivieri, Edmund Seto, Richard Danielson, Jeffrey Soller and Robert Cooper</i>	Workshop F2 - Conceptual Models and Getting Feedback on DSS and Modeling Research in its Early Stages
Kernel Density Independence Sampling based Monte Carlo Scheme (KISMCS) for inverse hydrological modeling* <i>Mojtaba Shafiei, Shervan Gharari, Saket Pande and Sandjai Bhulai</i>	Slow or rapid collapse? Transients between stable states as a source of uncertainty in predicting ecosystem shifts* <i>Derek Karssenber</i>	SiVio, Modelling Social Vulnerability Under a Local Perspective* <i>Thais Lopez-Inojosa, Martina Neuburger, Sebastian Medina-Plascencia and Franklin Davila</i>	A spatial planning tool for the evaluation of the effect of hydrological and land-use changes on ecosystem services* <i>Leon Mugwiza, Seleshi Yalew, Johannes van der Kwast, Masoom Hamdard and Willem van Deursen</i>	A Proposed Approach to the Development of Federated Model Sets* <i>Kenneth Bryden</i>	Use of near real time Earth Observation data infrastructures and open source tools for Water Resources Monitoring and Assessment* <i>Chris Mannaerts, Ben Maathuis and Petra Budde</i>	Quantitative Microbial Risk Assessment of Freshwater Impacted by Animal Fecal Material* <i>Jeffrey Soller, Timothy Bartrand, Marirosa Molina, Gene Whelan, Mary Schoen and Nicholas Ashbolt</i>	
Controls on hydrologic partitioning: Using a mechanistic model for comparative hydrology across ungauged sub-catchments in a mountain headwater basin* <i>Christa Kelleher, Thorsten Wagener, Francesca Pianosi and Brian McGlynn</i>	APEX-CUTE: An Auto-calibration and Uncertainty Analysis Tool for the APEX Model* <i>Xiuying Wang and Haw Yen</i>	Vulnerability and adaptation of crop production to future climate change: a case study for representative farms in Flathead Valley, Montana, USA* <i>Tony Prato and Zeyuan Qiu</i>	Socio-Economic Regional Risk Assessment (SERRA) application to flood risk in the Vipacco Basin (north-east Italy)* <i>Claudia de Luca, Vahid Mojtaheed, Animesh Gain, Stefano Balbi, Michele Ferri and Carlo Giupponi</i>	Towards an interoperable and distributed e-Infrastructure for Hydro-Meteorology: the DRIHM project* <i>Antonella Galizia, Daniele D'Agostino, Alfonso Quarati, Gabriele Zereik, Luca Roverelli, Emanuele Danovaro, Andrea Clematis, Elisabetta Fiori, Fabio Delogu, Antonio Parodi, Christian Straube, Nils Felde, Michael Schiffers, Dieter Kranzmueller, Quillon Harpham, Bert Jagers, Luis Garrote, Vladimir Dimitrijevic, Ljiljana Dekic, Olivier Caumont and Evelynne Richard</i>	Reproducible Research within the DataNet Federation Consortium* <i>Reagan Moore and Arcot Rajasekar</i>	Accounting for Groups of Animals in QMRA of Recreational Waters* <i>Richard Muirhead and Vanessa Cave</i>	
Information Closure applied to explain energy balance residuals of an eddy-covariance flux tower's observations <i>Benjamin Ruddell and Nathan Brunsell</i>	Overview and Application of the Model Optimization, Uncertainty, and Sensitivity Analysis (MOUSE) Toolbox* <i>Jim Ascough, Christian Fischer, Nathan Lighthart, Olaf David, Tim Green and Sven Kralisch</i>	An integrative modeling framework to evaluate wheat production systems: Fusarium head blight* <i>Willingthon Pavan, José Maurício Cunha Fernandes, Alexandre Lazzaretti, Josué Toebe, Jorge Luis Bavaresco, Alex C. Ruane and Rodrigo Yoití Tsukahara</i>	AMADEUS: A System for Monitoring Water Quality Parameters and Predicting Contaminant Paths* <i>Abdeltawab Hendawi, David Hazel, Joel Larson, Yiru Li, Dwaine Trummert, Mohamed Ali and Ankur Teredesai</i>	NESII Modular, High Performance Infrastructure for Earth System Modeling* <i>Cecelia Deluca and Peggy Li</i>	HydroShare: Advancing Collaboration through Hydrologic Data and Model Sharing* <i>David Tarboton, Ray Idaszak, Jeff Horsburgh, Jeff Heard, Dan Ames, Jonathan Goodall, Larry Band, Venkatesh Merwade, Alva Couch, Jennifer Arrigo, Richard Hooper, David Valentine and David Maidment</i>		

Monday, June 16, 2014 – Block 3 (2:00 p.m. – 3:20 p.m.)				Monday, June 16, 2014 – Block 3 (2:00 p.m. – 3:20 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream G - Data Mining and Algorithms for Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling	Stream D - GIS and Visualization	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream G - Data Mining and Algorithms for Environmental Modeling
Session G1 - Using Simulation Models to Improve Understanding of Environmental Systems	Session C1 - Complexity, Sensitivity, and Uncertainty Issues in Integrated Environmental Models	Session H5 - Systems Modeling and Climate Change: A Systematic Methodology for Disentangling Elements of Vulnerability, Adaptation and Adaptive Capacity	Session D1 - GIS and Environmental Modeling for Decision Support	Session B1 - Research Infrastructures for Integrated Environmental Modeling	Session A1 - Leveraging Cyberinfrastructure to Advance Scientific Productivity and Reproducibility in the Water Sciences	Session H1 - Environmental Modeling, Software, and Data to Support Quantitative Microbial Risk Assessments (QMRAs)	
Moderator - Steven Weijs	Moderator - Jim Ascough	Moderator - Marcello Sano	Moderator - Johannes van der Kwast	Moderator - Antonella Galizia	Moderator - Jonathan Goodall	Moderator - Jeff Soller	
Modelling spatial relationships between ecosystem services and agricultural production in an agent-based model* <i>Christoph Sahrbacher, Mark Brady, Yann Clough, Changxing Dong, Ullrika Sahlin and Martin Stjernman</i>	A Simple and Effective Approach to Global Sensitivity Analysis Based on Conditional Output Distributions* <i>Francesca Pianosi and Thorsten Wagener</i>	A sequential participatory approach to adapt livestock systems to climate change* <i>Marion Sautier, Mathilde Piquet, Michel Duru and Roger Martin-Clouaire</i>	An Extendable Experiment with GIS and ICT to make Environmental Data and Modelling User-Friendly and Accessible* <i>Saurav Kumar, Adil Godrej and Thomas Grizzard</i>	Selection and Evaluation of a Framework for Interoperable Freshwater Modelling* <i>Alexander Elliott, Gabriella Turek, Valerie Snow, Daniel Rutledge, Alistair Ritchie and Alexander Herzig</i>	Enabling Water Science at the CUAHSI Water Data Center* <i>Alva Couch, Richard Hooper, Jon Pollak, Marie Martin and Martin Seul</i>	SWAT-SIR Model for Predicting Fate and Transport of Manure-borne Pathogens in Fragmented Agriculture-Forest Ecosystems* <i>Andrey Guber, David Williams, Amy Dechen Quinn, Sushil Tamrakar, Joan Rose and William Porter</i>	Workshop G2 - Analyzing and Synthesizing Results from Complex Socio-ecosystem Models with High-dimensional Input, Parameter and Output Spaces
A model component for simulating the seasonal cycle of heterotrophic respiration* <i>Georgii Alexandrov</i>	Global sensitivity analysis in environmental water quality modelling: Where do we stand?* <i>Giorgio Mannina, Alida Cosenza, Manandraitsiory Randrianantoandro, François Anctil, Marc B. Neumann and Peter Vanrolleghem</i>	Coupled simulation of human-driven and natural land cover change in the Front Range Corridor, CO* <i>Zhihua Liu, Michael Wimberly, Aashis Lamsal, Terry Sohl and Todd Hawbaker</i>	Probabilistic Mapping With Bayesian Belief Networks: An Application On Ecosystem Service Delivery In Flanders, Belgium* <i>Dries Landuyt, Steven Broeckx, Katrien Van der Biest and Peter Goethals</i>	Leveraging quality assurance and quality control processes to deliver provenance as a first order scientific output in large scale environmental assessments* <i>William Francis, Nicholas Car, Rebecca Schmidt and Simon Gallant</i>	An Overview of the Nevada Climate Change Portal* <i>Sergiu Dascalu, Frederick Harris Jr., Michael McMahon Jr., Eric Fritzingler, Scotty Strachan and Richard Kelley</i>	Risk Assessment and Setback Distances for Viruses in Unconfined Aquifers: Implications of the Conceptual Model for Virus Retention* <i>Scott Bradford, Saeed Torkzaban, Jack Schijven and Jiri Simunek</i>	
Computational Cost Optimization for Influenza A (H1N1) Epidemic Model <i>Claudia Dias and Edison Arruda</i>	Model structure sensitivity of river water quality models for urban drainage impact assessment* <i>Frank Blumensaatt, Peter Krebs and Peter Vanrolleghem</i>	Object-based analysis of Multispectral RS Data and GIS for Detection of Climate Change Impact on the Karakoram Range Northern Pakistan* <i>Waquar Ul Hassan Chaudhary and Ake Sivertun</i>	Deployment of the International Atomic Energy Agency Water Balance Model with Isotopes (IWBMIso) Using eRAMS* <i>George Leavesley, Dagnachew Belachew, Olaf David, Dave Patterson, Jack Carlson, Pradeep Aggarwal and Mazdak Arabi</i>	Supporting environmental modelling with Taverna workflows, web services and desktop grid technology* <i>Ferenc Horváth, Péter Ittész, Dóra Ittész, Zoltán Barcza, Laura Dobor, Dóra Hidy, Attila Marosi and Alex Hardisty</i>	An Information System for the NASA GPM Iowa Flood Studies (IFloods) Field Campaign <i>Witold F. Krajewski, Ibrahim Demir and Radoslaw Goska</i>	Norovirus dose-response in sewage-related QMRA: The importance of virus aggregation* <i>Graham McBride</i>	
Activated Sludge with Total Solids-Retention: Modified-ASM1 Modelling and Simulation* <i>Cheikh Fall, Anabel Jiménez-Zárate, Ericka Millán-Lagunas and Yves Comeau</i>	Are the driving forces of hydrological models really driving the model output?* <i>Jiri Nossent, Willy Bauwens, Fernando Pereira, Toon Verwaest and Frank Mostaert</i>	Managing Mine Water under Extreme Climate Variability Using a Model Predictive Control Approach* <i>Lei Gao, Damian Barrett, Yun Chen, Rui Liu, Mingwei Zhou, Luigi Renzullo and Irina Emelyanova</i>	Morphing techniques for creating and representing spatiotemporal data in GIS* <i>José Moreira, Paulo Dias and Pedro Mesquita Niswonger</i>	Uncertainty Transfer in Modeling Layers: From GCM to downscaling to hydrologic surface-groundwater modeling* <i>John Mejia, Justin Huntington and Richard Niswonger</i>	Web Applications that Share Level-12 HUC Data and Models of the CONUS* <i>Lorne Leonard and Christopher Duffy</i>	QMRA of Intestinal Nematode Infection via Multimedia Exposure Pathways* <i>Arti Kundu, Ramiro Poma, Marion W. Jenkins, Veronica Rajal and Stefan Wuertz</i>	
Monday, June 16, 2014 – Block 4 (3:40 p.m. – 5:20 p.m.)				Monday, June 16, 2014 – Block 4 (3:40 p.m. – 5:20 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream G - Data Mining and Algorithms for Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling	Stream D - GIS and Visualization	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling		Stream F - Software and Model Design
Session G1 - Using Simulation Models to Improve Understanding of Environmental Systems	Session C1 - Complexity, Sensitivity, and Uncertainty Issues in Integrated Environmental Models	Session H5 - Systems Modeling and Climate Change: A Systematic Methodology for Disentangling Elements of Vulnerability, Adaptation and Adaptive Capacity	Session D1 - GIS and Environmental Modeling for Decision Support	Session B1 - Research Infrastructures for Integrated Environmental Modeling	Session A1 - Leveraging Cyberinfrastructure to Advance Scientific Productivity and Reproducibility in the Water Sciences		
Moderator - Steven Weijs	Moderator - Thorsten Wagener	Moderator - Oz Sahin	Moderator - Johannes van der Kwast	Moderator - Elisabetta Fiori	Moderator - Jonathan Goodall		
Uncovering urban system interrelations using land-use scenario modelling* <i>Steffen Lauf, Dagmar Haase and Birgit Kleinschmit</i>	Complexity regularized hydrological model selection* <i>Saket Pande, Liselot Arkesteijn and Luis Bastidas</i>	Modeling of CO2 Solubility in Salty Aqueous Solutions at Geological Sequestration Conditions* <i>Lu Wang, Qingchun Yu, Lu Xia and Yinhe Zheng</i>	Geospatial Workflow process for modelling complex land use cover change* <i>Isaac Nti and Philip Sallis</i>	The Community Surface Dynamics Modeling System (CSDMS): Focus on the Hydrology Focus Research Group <i>Jonathan Goodall</i>	Automating Data Management and Sharing within a Large-Scale, Heterogeneous Sensor Network* <i>Jeffery S. Horsburgh, Amber Spackman Jones and Stephanie Reeder</i>		
Integrated hydrologic model GSFLOW for a mountainous catchment – Setup and Calibration <i>Seshadri Rajagopal</i>	Residential mobility and model complexity – an agent-based modelling experiment on a small shrinking town in Eastern Germany* <i>Carsten M. Buchmann and Nina Schwarz</i>	Sea level rise effects on acidic pollution in a coastal acid sulphate soil area* <i>Phong Ngo Dang, Hoanh Chu Thai, Tuong To Phuc and Reiner Wassmann</i>	Open Source Map Based Software for Photovoltaic System Layout Design* <i>Daniel Ames, Kasem Pinthong, Michael Scott, Rohit Khattar, David Solan and Randy Lee</i>	From Vision to Reality: Making Data Services Useful to Water Scientists <i>Richard Hooper, Alva Couch and Jon Pollak</i>	Intelligent Workflow Systems and Provenance-Aware Software* <i>Yolanda Gil</i>		
Using Genetic Algorithms to Fit Species and Habitat Parameters for Modelling the Effect of Climate Change on Species Distributions with Stochastic Patch Occupancy Models* <i>Gary Polhill and Alessandro Gimona</i>	Physically based landslide susceptibility models with different degree of complexity: integration in OMS, calibration and verification* <i>Giuseppe Formetta, Giovanna Copparelli, Riccardo Rigon and Pasquale Versace</i>	Ocean acidification and fisheries – a Bayesian network approach to assessing a wicked problem* <i>Russell Richards, Jan-Olaf Meynecke, Oz Sahin, Rachel Tiller and Yajie Liu</i>	Modeling of Urban Planning Actions by Complex Transactions on Semantic 3D City Models* <i>Maximilian Sindram and Thomas H. Kolbe</i>	A novel framework for multidisciplinary environmental modeling using pseudo-natural language <i>Herman G. Dolder</i>	Integrating NEON data with existing models: An example with the Community Land Model* <i>Edmund Hart, Andrew Fox and Steve Berukoff</i>		
Simulating the sensitivity of residential wildfire risk to land use policy* <i>Tony Prato and Travis Paveglio</i>	Swarm Intelligent Agent-based Model Verification: A Case Study of Forest Insect Infestations <i>Liliana Perez</i>		Linking Bayesian Belief Networks and GIS to assess the Ecosystem integrity in the Brazilian Amazon* <i>Peter Verweij and Maggie Simoes Penello</i>				
How generic is human behaviour as a driver for land use change? <i>Hedwig van Delden</i>			Landfill Allocation Providing Alternatives for Decision Makers <i>Cuitlahuac Hernandez Santiago, Martin Volk and Joerg Priess</i>				

Tuesday, June 17, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)				Tuesday, June 17, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling	Stream F - Software and Model Design	Stream H - Applications of Environmental Modeling	Stream G - Data Mining and Algorithms for Environmental Modeling	Stream E - Environmental Modeling for Health and Human Issues	Stream B - Integrated Environmental Modeling
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session C1 - Complexity, Sensitivity, and Uncertainty Issues in Integrated Environmental Models	Session H5 - Systems Modeling and Climate Change: A Systematic Methodology for Disentangling Elements of Vulnerability, Adaptation and Adaptive Capacity	Session F3 - Modeling With Stakeholders: Old Problems, New Solutions	Session H8 - New Challenges for Agricultural Systems Modeling and Software	Session G2 - Data Mining for Environmental Sciences (s-DMTES IV)	Session E1 - Data Acquisition, Management and Processing for Sustainability Appraisal	
Moderator – Julien Harou	Moderator - Giorgio Mannina	Moderator - Russell Richards	Moderator - Alexey A. Voinov	Moderator - Ioannis N. Athanasiadis	Moderator - Karina Gibert	Moderator - Marina Erechtkoukova	Moderator - Quillon Harpham
Modelling of Water and Land Resource Management in Dry Rainfed Areas of India: Connecting the Environment and Technology to Institutions and Stakeholders* Vasant Gandhi	Practical identifiability analysis of environmental models* <i>Stefano Marsili-Libelli and Anthony Jakeman</i> The Use of Imprecise Probabilities in the Representation of Expert Judgments about Climate Damage <i>Michael Gerst, Simon Rinderknecht, Mark Borsuk and Peter Reichert</i> Operational Flash Flood Warning Systems with Global Applicability* <i>Theresa M. Modrick, Rochelle Graham, Eylon Shamir, Robert Jubach, Christopher R. Spencer, Jason A. Sperflage and Konstantine P. Georgakakos</i> Metamodeling for Cyberinfrastructure Design: Anticipating Socio-Environmental Teleconnections in Cholera Outbreaks Matteo Convertino	Modeling the impact of increased frequency of climatic disturbances on a subtropical lake ecosystem <i>Gideon Gal, Dirk Schlöbinger, Yael Gilboa and Noam Shachar</i> A modeling framework for oceanic basins under double exposure* Christian Mullon , <i>Gorka Merino, Jose Fernandes, William Cheung and Manuel Barange</i> Modelling climate change adaptation using cross-impact analysis: an approach for integrating qualitative and quantitative data* Johan Veltmeyer and Oz Sahin	Stakeholder Interaction in a Statutorily-Mandated Three-Year Lifecycle Analysis with Integrated Economic Analysis on California’s Used Oil Management System Robert Carlson Building trust while modeling with stakeholders as requirement for social learning* Meike Düsphol , <i>Tuck Fatt Siew and Petra Döll</i> Spatial optimization of best management practices to attain water quality targets Erica Gaddis , <i>Alexey Voinov, Ralf Seppelt and Donna Rizzo</i> W(h)ither the Oracle? Cognitive Biases and Other Human Challenges of IEM* Pierre Glynn	LiDAR and Hyperspectral data for Landscape and Vegetation Classification and Monitoring* Ake Sivertun , <i>Katharina Zöphel and Simon Ahlberg</i> The grassland model intercomparison of the MACSUR (Modelling European Agriculture with Climate Change for Food Security) European knowledge hub* <i>Shaoyu Ma, Marco Acutis, Zoltán Barcza, Haythem Ben Touhami, Luca Doro, Dóra Hidý, Martin Köchy, Julien Minet, Eszter Lellei-Kovács, Alessia Perego, Susanne Rolinski, Françoise Ruget, Giovanna Seddaiu, Lianhai Wu and Gianni Bellocchi</i> The challenges of incorporating urine and dung patches in process-based modelling of grazed agricultural systems* Val Snow , <i>Richard Eckard, Al Rotz, Ian Johnson and Nick Hutchings</i> The Value of Seasonal Productivity Forecasting in Biofuel Plans* <i>Giulia Fiorese and Giorgio Guariso</i>	Presentation of the Session Karina Gibert Data mining techniques applied to Automatic Taxon Identification on fish otoliths* Ramon Reig-Bolaño and Pere Puig-Marti Quantifying ENSO impacts at the basin scale using the Iterative Input variable Selection algorithm* <i>Ludovica Beltrame, Daniele Carbonin, Stefano Galelli, Andrea Castelletti and Matteo Giuliani</i> Predicting citation counts of environmental modelling papers* Barbara Robson and Aurélie Mousquès	Using Remote Sensing and Radar MET Data to Support Watershed Assessments Comprising IEM* Keewook Kim , <i>Katie Price, Gene Whelan, Mike Galvin, Kurt Wolfe, Paul Duda, Mark Gray and Yakov Pachepsky</i> Trustworthiness Modelling on Continuous Environmental Measurement* Mats Neovius , <i>Markus Stocker, Mauno Rönkkö and Luigia Petre</i> Identification of spatial and temporal patterns of Australian daily rainfall under a changing climate* Tingbao Xu , <i>Barry Croke and Michael Hutchinson</i> ALCES Online: Web-delivered Scenario Analysis to Inform Sustainable Land-use Decisions* Matthew Carlson , <i>Brad Stelfox, Noah Purves-Smith, Justin Straker, Shanti Berryman, Tim Barker and Barry Wilson</i>	Workshop B1 - Using Research Infrastructures for Integrated Environmental Modeling
Tuesday, June 17, 2014 – Block 2 (10:40 a.m. – 12:00 p.m.)				Tuesday, June 17, 2014 – Block 2 (10:40 a.m. – 12:00 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream F - Software and Model Design	Stream H - Applications of Environmental Modeling	Stream G - Data Mining and Algorithms for Environmental Modeling	Stream E - Environmental Modeling for Health and Human Issues	Stream F - Software and Model Design
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A2 - Sharing Scientific Environmental Data and Models	Session H6 - Environmental Fluid Mechanics - Theoretical, Modeling and Experimental Approaches	Session F3 - Modeling With Stakeholders: Old Problems, New Solutions	Session H8 - New Challenges for Agricultural Systems Modeling and Software	Session G2 - Data Mining for Environmental Sciences (s-DMTES IV)	Session E1 - Data Acquisition, Management and Processing for Sustainability Appraisal	
Moderator - Julien Harou	Moderator - Stephan Mäs	Moderator - Carlo Gualtieri	Moderator - Pierre D. Glynn	Moderator - Ioannis N. Athanasiadis	Moderator – Manel Poch	Moderator - Peter Khaïter	Moderator - Carsten M. Buchmann
Planning Modeling in the Klamath River Basin - Useful Tools for Stakeholders* Nancy Parker , <i>Kristin White, Lee Traynham and Jason Cameron</i> Modification of Interactive Genetic Algorithm (IGA) operators to reflect decision maker’s preferences in generation of new alternatives Adriana Piemonti and Meghna Babbar-Sebens Modeling Potential Environmental Impacts of Deep Aquifer CO2 Sequestration* Nigel Quinn CalSim Modeling of Proposed San Joaquin River Basin Flow Standards* Thomas Fitzhugh	Building a Scientific Geodata Infrastructure to Support the Exchange of Environmental Data and Models Lars Bernard and Stephan Mäs Automating Data-Model Workflows at a Level-12 HUC Scale in a Distributed Computing Environment* Lorne Leonard and Christopher Duffy Sustainable Long Term Scientific Data Publication: Lessons Learned from a Prototype Observatory Information System for the Illinois River Basin Benjamin Ruddell , <i>Ilya Zaslavsky, David Valentine, Bora Beran, Michael Piasecki, Qingwei Fu and Praveen Kumar</i> A Web-based Application for Environmental Data Processing Likhitha Ravi , <i>Sergiu Dascalu, John Mejia, Noureddine Belkhatir and Frederick Harris Jr.</i>	Computational evaluation of pedestrian wind comfort and wind safety around a high-rise building in an urban area* <i>Wendy Janssen, Bert Blocken and Twan van Hooff</i> Convective heat transfer at the surfaces of a surface-mounted cube in a turbulent boundary layer: LES and RANS simulations* Hamid Montazeri , <i>Bert Blocken and Jan Hensen</i> Numerical modelling of dissolved-oxygen in a cold-region river* Ahmad Shakibaenia , <i>Yonas Dibike and Terry Prowse</i> Environmental Fluid Mechanics at iEMSS conferences (2002-2014)* Carlo Gualtieri and Dragutin Mihailovic	Stakeholder Engagement in Public Resource Management* Lindell Ormsbee , <i>Hoover Anna and Kipp Jim</i> An integrated conceptual and modeling framework to facilitate stakeholders’ negotiation about land development Majeed Pooyandeh and Danielle J. Marceau Experiences with a serious online game for exploring complex relationships of sustainable land management and human well-being: LandYOUS* Ralf Seppelt , <i>Romina Martin, Alexander Finger, Christin Henzen, Martin Linder, Katrin Pietzsch, Anderas Wertzze, Ute Zander and Jule Schulze</i> We C.A.N. Do It. Actively Engaging Stakeholders in Modelling* A. Michael Sheer	An approach for encapsulating Fortran coded models into a R package* <i>Carlos Amaral Hölbig, Willington Pavan, José Mauricio Cunha Fernandes, Angela Mazzonetto and Tiago Zortea</i> Reimplementation and reuse of the Canegro model* Tommaso Stella , <i>Valentina Pagani, Caterina Francone, Sevim Seda Yamaç, Giacomo Finotto, Simone Bregaglio, Enrico Ceotto and Roberto Confalonieri</i> APSIM - Evolution towards a new generation of agricultural systems simulation Dean Holzworth Extending existing models to capture vegetation response to extreme weather events: the MODEXTREME project* Gianni Bellocchi , <i>Francisco J. Villalobos, Marcello Donatelli, Ole B. Christensen, Oscar Roas, Roberto Confalonieri, Ioannis N. Athanasiadis, Irina Carpusca and Claudio O. Stöckle</i>	Predicting Impact of Natural Calamities in Era of Big Data and Data Science* Carol Joseph and Sunil Kakade Discovering Comprehensible Hydrogeological Profiles in the Margarita Island’s Aquifers from Data Mining approach including Post-processing* Karina Gibert and Dante Conti Graph clustering based on social network community detection algorithms* <i>Enrique Campbell, David Ayala-Cabrera, Joaquín Izquierdo and Rafael Pérez-García</i>	Case study: Prognostic model of Czech municipal waste production and treatment* <i>Jiri Kalina, Jiri Hrebicek and Gabriela Bulkova</i> Sustainability Indicators for Water Resource Assessment: Compatibility and Data Requirements* Marina Erechtkoukova and Peter A. Khaïter A model component for simulating CO2 emissions growth* Gleb Alexandrov Introducing a raster data storage and modeling approach based on a modified sinusoidal projection implementation with application to time series observation databases Herman G. Dolder	Workshop F4 - Complexity in Agent-based Models

Tuesday, June 17, 2014 – Block 3 (2:00 p.m. – 3:20 p.m.)				Tuesday, June 17, 2014 – Block 3 (2:00 p.m. – 3:20 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream F - Software and Model Design	Stream H - Applications of Environmental Modeling	Stream G - Data Mining and Algorithms for Environmental Modeling	Stream D - GIS and Visualization	Stream H - Applications of Environmental Modeling
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A2 - Sharing Scientific Environmental Data and Models	Session H6 - Environmental Fluid Mechanics - Theoretical, Modeling and Experimental Approaches	Session F3 - Modeling With Stakeholders: Old Problems, New Solutions	Session H8 - New Challenges for Agricultural Systems Modeling and Software	Session G2 - Data Mining for Environmental Sciences (s-DMTES IV)	Session D2 - Virtual Reality, 3D Applications, and Immersive Visualization	
Moderator - Yakov Pachepsky	Moderator - Lars Bernard	Moderator - Carlo Gualtieri	Moderator - Nagesh Kolagani	Moderator - Ioannis N. Athanasiadis	Moderator – Ramon Reig	Moderator - Eric Whiting	Moderator - David Koehler
Accept'Hydro: a tool for evaluating potential wetland areas at floodplain scale* <i>Adrien Bonneau, Grégory Espitalier-Noël, Patrice Torguet, Jean-Pierre Jessel, José-Miguel Sanchez-Pérez, Philippe Vervier and Sabine Sauvage</i>	Tethys: A Software Framework for Web-Based Modeling and Decision Support Applications* <i>Norm Jones, Jim Nelson, Nathan Swain, Scott Christensen, David Tarboton and Pabitra Dash</i>	Use of CFD in the initial design of a snow fence* <i>Sarah Wakes</i>	Participatory modelling of land use change with graphic tools <i>Zhanli Sun and Daniel Müller</i>	A conceptual model to guide exploration of global food-water security* <i>Joseph Guillaume, Matti Kumm, Miina Porkka and Olli Varis</i>	Problem-specific Rule Extraction for Better Performance of Evolutionary Algorithms* <i>Joaquín Izquierdo, Idel Montalvo, Enrique Campbell and Rafael Pérez-García</i>	Balancing Conflicting Management Objectives using Interactive, Three-Dimensional Visual Analytics* <i>Joseph Kasprzyk, Joshua Kollat and Chris Danilo</i>	Workshop H2 - Modeling Tools for Energy and the Environment
Investigating possible climate change and development effects on water quality within an arid catchment in South Africa: a comparison of two models* <i>Andrew Slaughter, Sukhmani Mantel and Denis Hughes</i>	A Roadmap to Domain Specific Programming Languages for Environmental Modeling: Key Requirements and Concepts <i>Ioannis N. Athanasiadis and Ferdinando Villa</i>	Three-Dimensional Numerical Model to Evaluate the Suspended Solid Removal in Surface Flow Constructed Wetland* <i>Sangsoo Han, Zhi Chen and Fayi Zhou</i>	A tale of two tools: NSDSS, a tool for Ice Road Planning in the Multi-stakeholder Alaskan Tundra; and BMP Designer, empowering Lake Tahoe residents to control stormwater, one house at a time <i>Stephen Bourne</i>	Investigating Operational Decision-Making in Agriculture* <i>Charlotte Daydé, Stéphane Couture, Frédéric Garcia and Roger Martin-Clouaire</i>	Biofilm Susceptibility in a Drinking Water Distribution System Regarding 24 Hours Demand Curve* <i>Eva Ramos Martínez, Manuel Herrera, Joaquín Izquierdo and Rafael Pérez-García</i>	Interactive Web-based Hydrological Simulation System as an Education Platform <i>Ibrahim Demir</i>	
Enhancing the Link between Surface and Groundwater Models for Climate Change Assessment of Water Supply and Demand in Northwest Mexico* <i>George Whitten, Matthew Hann, Enrique Vivoni, Agustín Robles-Morua and Alex Mayer</i>	The use of object-oriented programming concepts for documenting a model ensemble* <i>Georgii Alexandrov</i>	2D Hydrodynamic Based Logic Modeling Tool for River Restoration Decision Analysis: A Quantitative Approach to Project Prioritization* <i>David Bandrowski, Yong Lai, Josh Murauskas, David Gaeuman and Nate Bradley</i>	Assessing environmental trade-offs with Bayesian Decision Networks – Comparing ecosystem services and irrigation needs of urban and peri-urban plant species in Xinjiang, NW China* <i>Sina K. Frank, Petra Döll, Martin Welp, Ümüt Halik and Hamid Yimit</i>	Agricultural systems modelling and software: current status and future prospects <i>Dean Holzworth, Val Snow, Sander Janssen, Marcello Donatelli, Ioannis N. Athanasiadis, Gerrit Hoogenboom, Jeffrey White and Peter Thorburn</i>	Automated data quality assessment: Dealing with faulty on-line water quality sensors* <i>Janelcy Alferes and Peter Vanrolleghem</i>	Benefits of the use of natural user interfaces in water simulations* <i>Gennadii Danchyts, Fedor Baart, Arthur van Dam and Bert Jagers</i>	
Comprehensive Assessment of Water Resources Vulnerability Based on ISPA Model under Climate Change in Haihe River Basin* <i>Xiaohua Yang, Congli Di and Yuqi Li</i>	Evaluation of Metamodeling Techniques on a CO2 Injection Simulation Study* <i>Jared Schuetter, Srikanta Mishra and Doug Mooney</i>	Relationship between Von Karman and Reynolds number: a critical analysis using the wind profile method* <i>Armando Pellicioni</i>	Modeling with citizen scientists: Using community-based modeling tools to develop citizen science projects* <i>Steven Gray, David Mellor, Rebecca Jordan, Alycia Crall and Greg Newman</i>		Where Are We in Wastewater Treatment Plants Data Management? A Review and a Proposal* <i>Manel Poch, Joaquim Comas, José Porro, Manel Garrido, Luis Corominas and Maite Pijuan</i>	Assessing the Relative Value of Stereoscopic 3D versus Head Tracking in Large Scale Immersive Visualization* <i>Derrick Turner and Dan Ames</i>	
Tuesday, June 17, 2014 – Block 4 (3:40 p.m. – 5:20 p.m.)				Tuesday, June 17, 2014 – Block 4 (3:40 p.m. – 5:20 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream F - Software and Model Design	Stream F - Software and Model Design	Stream H - Applications of Environmental Modeling	Stream B - Integrated Environmental Modeling	Stream D - GIS and Visualization	Stream E - Environmental Modeling for Health and Human Issues
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A2 - Sharing Scientific Environmental Data and Models	Session F5 - Advances in Environmental Software Systems	Session F3 - Modeling With Stakeholders: Old Problems, New Solutions	Session H6 - Environmental Fluid Mechanics - Theoretical, Modeling and Experimental Approaches	Session B2 - Semantic Interoperability of Models in Intelligent Environmental Decision Support Systems (IEDSS)	Session D2 - Virtual Reality, 3D Applications, and Immersive Visualization	
Moderator – Joseph Kasprzyk	Moderator - Stephan Mäs	Moderator - Ioannis N. Athanasiadis	Moderator - Michael K. McCall	Moderator - Carlo Gualtieri	Moderator - Miquel Sánchez-Marrè	Moderator - Derrick Turner	Moderator - Stefan Reis
Multicriteria Decision-Making for Flood Management Based on Sustainable Development Criteria* <i>Mohammad Ebrahim Banihabib and Abolfazl Laghabdoost-Arani</i>	Easy access to reproducible computing and uncertainty propagation - the Tzar framework <i>Lucy Bastin, Ascelin Gordon, Bill Langford and River Satya</i>	Towards an Ontology for Situation Assessment in Environmental Monitoring* <i>Markus Stocker, Mauno Rönkkö and Mikko Kolehmainen</i>	Educating Stakeholders about the Need for Water Balance Using a Participatory Modeling Framework* <i>Nagesh Kolagani, Palaniappan Ramu, Alexey A. Voinov and C. Lakshmana Rao</i>	Large Wood Flow Hydraulics: A 3D Modelling Approach* <i>Yong Lai and David Bandrowski</i>	Using semantic-based spatial reclassification for interoperable data management in Natura 2000 monitoring* <i>Simon Nieland, Niklas Moran, Birgit Kleinschmit and Michael Förster</i>	3D model construction of water supply system pipes based on GPR images* <i>David Ayala-Cabrera, Joaquín Izquierdo, Silvia J. Ocaña-Levario and Rafael Pérez-García</i>	Workshop E1 - Integrating Modeling and Smart Sensors for Environmental and Human Health
A new evaluation framework for input variable selection algorithms used in environmental modelling* <i>Greer Humphrey, Stefano Galelli, Andrea Castelletti, Holger Maier, Graeme Dandy and Matthew Gibbs</i>	Shared platform to design, execute, and test environmental hazard models <i>Greg Soulages and Ashwin Kashyap</i>	Business Intelligence in Environmental Reporting Powered by XBRL* <i>Jiří Hřebíček, Michal Hodinka, Michael Štencl and Oldřich Trenz</i>	Eliciting stakeholder preferences through nonmarket valuation techniques* <i>Marit Kragt</i>	Bedforms-induced hyporheic exchange: impact of the porous medium permeability* <i>Carlo Gualtieri</i>	Evolutionary Computation and Case-Based Reasoning Interoperation in IEDSS through GESCONDA* <i>Miquel Sánchez-Marrè, Karina Gibert and Radha Krishnan Vinayagam</i>	A Virtual Reality System to Monitor and Control Diseases in Strawberry Crops with Drones: a project* <i>Rafael Rieder, Willingthon Pavan, José M. C. Maciel, José M. C. Fernandes and Márcio S. Pinho</i>	
A spatial framework for regional-scale flooding risk assessment* <i>Yun Chen, Damian Barrett, Rui Liu, Lei Gao, Mingwei Zhou, Luigi Renzullo and Susan Cuddy</i>	Exploring Environmental Models Catalogs* <i>Ilya Zaslavsky, Whitenack Thomas and David Valentine</i>	Towards better environmental software for spatio-temporal ecological models: lessons learned from developing a phytoplankton prediction system for lakes <i>Junfeng Gao and Jiacong Huang</i>	A Social Metamodel to control the participatory process in complex system modelling* <i>Michel Lamplé, Denis Bailly and Johanna Ballé-Béganton</i>	Development of data to support a software application for assessment of wind conditions in the Port of Rotterdam* <i>Wendy Janssen Janssen, Bert Blocken and Hermjan van Wijhe</i>	A hybrid, integrated IEDSS for the Management of Sequencing Batch Reactors* <i>Davide Sottara, Stefano Bragaglia, Dalila Pulcini, Paola Mello and Luca Luccarini</i>	Simulating Floods in Virtual Reality <i>Byron Tasseff and David Judi</i>	
Incorporating risk into water resource planning - a communications challenge <i>Susan Cuddy, Darla Hatton MacDonald, Geoff Podger and Mathew Gilfedder</i>	Decision Support and Web-based Implementation of Algorithms for the Ecological Assessment of Pesticides <i>Tom Purucker</i>	A low-cost, full-service air quality data archival system* <i>Argyris Samourkasidis and Ioannis N. Athanasiadis</i>	Essential elements for participatory modelling: Using deliberative engagement and gesture-enabled interfaces to implement energy-mineral-water solutions in the Atacama Desert, Chile* <i>Suzanne Pierce and Eugenio Figueroa</i>	Computational analysis of the performance of a new facade concept for wind comfort on building balconies: validation and application* <i>Hamid Montazeri, Bert Blocken, Wendy Janssen and Twan van Hooff</i>	Interoperable Intelligent Environmental Decision Support Systems: a Framework Proposal* <i>Miquel Sánchez-Marrè</i>	Am I mis-using the 'GIS' term? <i>Eric Whiting</i>	
The SmartH2O project and the role of social computing in promoting efficient residential water use: an outlook* <i>Andrea-Emilio Rizzoli, Andrea Castelletti, Andrea Cominola and Piero Fraternali</i>	Life cycle fragments: development of an online tool for curating and sharing life cycle assessment models* <i>Brandon Kuczenski</i>	Modeling and Implementation of a Geospatial Database for Environmental Niches and Potential Geographic Distributions* <i>Gerardo Zárate, Jugurta Lisboa-Filho, Carlos Sperber and Flávia Carmo</i>	Proposing A Framework for Crowd-Sourced Green Infrastructure Design* <i>Samuel Rivera, Lawrence Band, Jong S. Lee, Kenton McHenry, Arthur Schmidt, Jack Snoeyink, William C. Sullivan and Mary C. Whittton and Barbara Minsker</i>				

Wednesday, June 18, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)				Wednesday, June 18, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream F - Software and Model Design	Stream E - Environmental Modeling for Health and Human Issues	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream F - Software and Model Design
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A2 - Sharing Scientific Environmental Data and Models	Session F5 - Advances in Environmental Software Systems	Session E2 - Environmental Modeling of Human Health Effects from Global to Local Scale	Session A4 - Smart and Mobile Devices Used for Environmental Applications	Session B3 - Integrated Hydrodynamic, Hydrological, Water Quality, and Ecological Models	Session A3 - Innovative Architectures and Approaches of Cloud and Mobile Technology for Environmental Modeling	
Moderator - Julien Harou	Moderator - Lars Bernard	Moderator - Ioannis N. Athanasiadis	Moderator - Stefan Reis	Moderator - Denis Havlik	Moderator - Mohamed Ali Bek	Moderator - Olaf David	Moderator - Nagesh Kolagan
A web-based, democratic planning tool to include stakeholder participation in design of spatial distribution of best management practices <i>Adriana Piemonti and Meghna Babbar-Sebens</i>	Open-Hardware Meets Open Software for Environmental Monitoring* <i>Jeffrey Sadler, Daniel Ames and Rohit Khattar</i>	Abstractions from Sensor Data with Complex Event Processing and Machine Learning* <i>Markus Stocker, Mauno Rönkkö and Mikko Kolehmainen</i>	INTEGRA: From Global Scale Contamination To Tissue Dose* <i>Dimosthenis Sarigiannis, Spyridon Karakitsios, Alberto Gotti, George Loizou, John Cherie, Roel Smolders, Katleen De Brouwere, Karen Galea, Kate Jones, Evangelos Handakas, Krystalia Papadaki and Anne Sleuwerhoek</i>	Whale Trails – a smart phone application for whale tracking* <i>Jan-Olaf Meynecke</i>	Implementation of Integrated Modelling Approach to Impact Assessment Applications for LNG Operations using 3-D Comprehensive Modelling Framework* <i>Shwet Prakash and Venkat Kolluru</i>	Interactive web-based flood modeling at country wide scale and planter size resolution* <i>Fedor Baart, Jack Ha, Arthur van Dam, Gennadii Danchyts and Martijn Siemerinnk</i>	Workshop F1 - Modeling With Stakeholders: Old Problems, New Solutions
SWANP: software for automatic Smart Water Network Partitioning* <i>Armando Di Nardo, Michele Di Natale, Giovanni Francesco Santonastaso, Francesco Paolo Tuccinardi and Giancarlo Zaccone</i>	Wireless Remote Animal Monitoring (WRAM) - A new international database e-infrastructure for management and sharing of telemetry sensor data from fish and wildlife* <i>Holger Dettki, Michel Brode, Ivan Clegg, Timothy Giles and Jerry Hallgren</i>	An ontology-based approach for the instrumentation, control and automation infrastructure of a WWTP* <i> Davide Sottara, Jean Claude Correale, Thierry Spetebroot, Dalila Pulcini, Daniele Giunchi, Fabrizio Paolucci and Luca Luccarini</i>	EPIDEMIA – An EcoHealth Informatics System for Integrated Forecasting of Malaria Epidemics* <i>Michael Wimberly, Geoffrey Henebry, Yi Liu and Gabriel Senay</i>	Mobile device app for small open-channel flow measurement* <i>Beat Lüthi, Thomas Philippe and Salvador Peña-Haro</i>	Predicting local scale climate change impacts on endangered birds by integrating watershed models and expert knowledge-based models for decision-support <i>Hla Htun, Steven Gray, Christopher Lepczyk, Andrew Titmus and Sheila Conant</i>	Data Provisioning for the Object Modeling Sytem (OMS) * <i>Jack Carlson, Olaf David, Wesley Lloyd, George Leavesley, Ken Rojas, Timothy Green, Mazdak Arabi, Lucas Yaege and Holm Kipka</i>	
Using Bayesian Networks to link Environmental Flows to Ecosystem Services in the Murray-Darling Basin, Australia* <i>Sina K. Frank, Carmel A. Pollino and Petra Döll</i>	An information platform fostering re-use of water data* <i>Ralf Denzer and Gerben Boot</i>	Integrating raster and vector spatial representations with interaction graphs for multi-scale environmental simulations* <i>Mathieu Castets, Degenne Pascal, Poncelet Pascal and Lo Seen Danny</i>	India and the Millennium Development Goals (MDGs): Modelling health and development from satellite images at the subnational level <i>Koel Roychowdhury</i>	A Bayesian Maximum Entropy scheme for the assimilation of mobile recordings with simulations of urban micrometeorological data* <i>Uwe Schlink and Gabi Fischer</i>	Analysis of vegetation heterogeneity as sensor for soil moisture patterns using remote sensing* <i>Angela Lausch, Claudia Schuetze, Bernhard Siemon, Steffen Zacharias and Ulrike Werban</i>	MODPI: A parallel model data passing interface for integrating legacy environmental system models* <i>Andre Dozier, Olaf David, Yao Zhang and Mazdak Arabi</i>	
Developing an Aquasim biofilm model to simulate a novel batch biofilm passive aeration technology* <i>Noelle Jones, Eoghan Clifford and Maebh Grace</i>		A Chemical Properties Simulator to Support IEM* <i>Gene Whelan, Eric Weber, Caroline Stevens, Mitch Pelton, Kurt Wolfe, Rajbir Parmar, Mike Galvin, Said Hilal and Justin Babendreier</i>	Modelling Similarities of Endocrine Disruptors in Pine Needles and Human Breast Milk* <i>Kristina Voigt, Rainer Bruggemann, Hagen Scherb, Ismet Cok and Karl-Werner Schramm</i>	Crowdsourcing in Early Warning Systems* <i>Ulrich Meissen and Frank Fuchs-Kittowski</i>	Streamflow responses to future climate and land-use changes in the Elbow River watershed in southern Alberta, Canada* <i>Babak Farjad, Anil Gupta, Shawn Marshall and Danielle Marceau</i>	Back-end Science Model Integration for Ecological Risk Assessment* <i>Tao Hong, Chancellor Pascale, Jonathan Flaishans, Marcia Snyder and Steven Purucker</i>	
Wednesday, June 18, 2014 – Block 2 (10:40 a.m. – 12:00 p.m.)				Wednesday, June 18, 2014 – Block 2 (10:40 a.m. – 12:00 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream F - Software and Model Design	Stream E - Environmental Modeling for Health and Human Issues	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream G - Data Mining and Algorithms for Environmental Modeling
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A2 - Sharing Scientific Environmental Data and Models	Session F5 - Advances in Environmental Software Systems	Session E2 - Environmental Modeling of Human Health Effects from Global to Local Scale	Session A4 - Smart and Mobile Devices Used for Environmental Applications	Session B3 - Integrated Hydrodynamic, Hydrological, Water Quality, and Ecological Models	Session A3 - Innovative Architectures and Approaches of Cloud and Mobile Technology for Environmental Modeling	
Moderator - Yakov Pachepsky	Moderator - Stephan Mäs	Moderator - Ioannis N. Athanasiadis	Moderator - Massimo Vieno	Moderator - Gerald Schimak	Moderator - Mohamed Ali Bek	Moderator - Wesley Lloyd	Moderator - Karina Gibert
Application of Ant-Colony-Optimization Algorithm for Improved Management of First Flush Effects in Urban Wastewater Systems* <i>Marta Verdaguer, Narcis Clara, Oriol Gutierrez and Manel Poch</i>	OGC and HIS: Implementing WFS and WaterML 2 for HydroServer* <i>Rohit Khattar and Daniel Ames</i>	Simulation of Groundwater Flow based on Adaptive Mesh Refinement* <i>George Kourakos and Thomas Harter</i>	Optimal Surveillance System Design for Outbreak Source Detection Maximization: a Vol Model* <i>Matteo Convertino and Craig Hedberg</i>	The ESM-App – a new smartphone application to map ecosystem services* <i>Joerg A. Priess, Robin Elger and Jennifer Hauck</i>	Pitfalls in including remotely sensed evapotranspiration as calibration for stream flow prediction using a lumped conceptual model <i>Willem Vervoort, Susannah Miechels, Floris van Ogtrop and Joseph Guillaume</i>	Modeling-as-a-Service (MaaS) using the Cloud Services Innovation Platform (CSIP) * <i>Olaf David</i>	Workshop G1 - Second Joint Workshop on Environmental Data Mining and Intelligent Decision Support Systems
Using surrogate modeling for fast estimation of water budget component in a regional watershed* <i>Aurelien Hazart, Koji Mori, Kazuhiro Tada and Hiroyuki Tosaka</i>	Technology behind the Deltares Open Archive* <i>Andre Grijze, Peter Gijbers, Erik de Rooij, Erik Pelgrim and Onno van den Akker</i>	The Challenge of Model Implementation of Regulatory Models in Integrated Environmental Modeling Systems* <i>James Droppo, Mitchell Pelton and Jeremy Rishel</i>	Sequential Portfolio Decision Model for Epilepsy Death Risk Reduction* <i>Matteo Convertino and Nicola Convertino</i>	Involving Citizens into Mapping of Illegal Landfills and other civic issues in the Czech Republic* <i>Miroslav Kubásek and Jiří Hřebíček</i>	Modeling and Simulation of Rainfall-Runoff Flooding using Probabilistic Precipitation Forecasts <i>David Judi and Byron Tasseff</i>	Data Integration, Modeling and Information Communication for Flood Risk Mitigation using Cloud Computing <i>Ibrahim Demir, Scott Small, Radoslaw Goska, Kate Keahey, Patrick Armstrong, Pierre Riteau, Bongchul Seo, Ricardo Mantilla and Witold F. Krajewski</i>	
Water quality risk simulation of Laoguanhe River based on uncertainty* <i>Jun Hu, Xuan Wang and Chunhui Li</i>	Usage of the Deltares Open Archive* <i>Peter Gijbers, Andre Grijze, Marc van Dijk and Onno van den Akker</i>	Environmental Software Development with UML* <i>Peter Khaiter and Marina Erehtchoukova</i>	Improved simulation of evopotranspiration of tropical forest in catchment models* <i>Ann van Griensven, Samita Maharjan and Tadesse Alemayehu</i>	The PocketLAI smartphone app: an alternative method for leaf area index estimation* <i>Caterina Francane, Marco Foi and Roberto Confalonieri</i>	Integrated RWQM1 based water quality modelling using OpenMI, a case study of the river Zenne, Belgium* <i>Narayan Shrestha, Leta Olkeba Tolessa, De Fraine Bruno, Brian Natacha, Ann Van Griensven and Bauwens Willy</i>	Deployment of SWAT-DEG as a Web Infrastructure Utilizing Cloud Computing for Stream Restoration* <i>Jeffrey Ditty, Peter Allen, Olaf David, Jeffrey Arnold, Michael White and Mazdak Arabi</i>	
Central Valley Water Management Screening Model for Water Management Alternatives* <i>Nazrul Islam, Nancy Parker and Holly Canada</i>	A Distributed Architecture for Sharing Ecological Data Sets with Access and Usage Control Guarantees* <i>Philippe Bonnet, Javier Gonzalez and Joel Granados</i>	An architecture for integration of multidisciplinary models* <i>Getachew Belete, Alexey Voinov and Niels Holst</i>	ecoSmart Landscapes: A Versatile SaaS Platform for Green Infrastructure Applications in Urban Environments* <i>Greg McPherson, Qingfu Xiao, Joe Purohit, Mark Dietsenberger, Charles Boardman, Jim Simpson and Paula Peper</i>	Investigating mobility styles using smartphones: advantages and limitations according to a field study in Southern Switzerland* <i>Andrea Emilio Rizzoli, Roman Rudel, Anna Foerster, Giorgio Corani, Francesca Cellina, Luca Pampuri, Roberto Guidi and Andrea Baldassari</i>		The Virtual Machine (VM) Scaler: An Infrastructure Manager Supporting Environmental Modeling on Infrastructure-as-a-Service Clouds* <i>Wes Lloyd, Olaf David, Mazdak Arabi, James Ascough, Tim Green, J.R. Carlson and K.W. Rojas</i>	

Bold = Presenter, * = Paper can be found published in the conference proceedings

Wednesday, June 18, 2014 – Block 3 (2:00 p.m. – 3:20 p.m.)				Wednesday, June 18, 2014 – Block 3 (2:00 p.m. – 3:20 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream F - Software and Model Design	Stream F - Software and Model Design	Stream E - Environmental Modeling for Health and Human Issues	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream B - Integrated Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session F4 - Interaction Design for Environmental Information Systems	Session F5 - Advances in Environmental Software Systems and Parallel Simulation	Session E2 - Environmental Modeling of Human Health Effects from Global to Local Scale	Session A4 - Smart and Mobile Devices Used for Environmental Applications	Session B3 - Integrated Hydrodynamic, Hydrological, Water Quality, and Ecological Models	Session A3 - Innovative Architectures and Approaches of Cloud and Mobile Technology for Environmental Modeling	
Moderator – Graham McBride	Moderator - Daryl H. Hepting	Moderator - Ioannis N. Athanasiadis	Moderator - Stefan Reis	Moderator - Gerald Schimak	Moderator - Mohamed Ali Bek	Moderator - Olaf David	Moderator - Alexey Voinov
Data-based modeling for water resource quality over long term trends* <i>Vincent Laurain, Marion Gilson and Marc Benoit</i>	Fronting Integrated Scientific Web Applications: Design Features and Benefits for Regulatory Environments* <i>Jonathan Flaishans, Tao Hong, Marcia Snyder, Chancellor Pascale and Tom Purucker</i>	Software Engineering for Scientific Application: Effort Report on the Community Land Model within the Earth System Modeling Framework* <i>Dali Wang and Yang Xu</i>	Estimation of PAHs concentration fields in an urban area by means of Support Vector Machines* <i>Armando Pelliccioni, Andrea Cristofari, Camillo Siliibello, Monica Gherardi, Angelo Cecinato and Mafalda Lamberti</i>	State and trends in mobile observation applications* <i>Denis Havlik and Gerald Schimak</i>	Modelling the Impact of Microbial Loop on Aquatic Food Webs* <i>Yu Li, Liancong Luo, Vardit Makler-Pick, Emily Read and Matt Hipsey</i>	Enhancing User Customization through Novel Software Architecture for Utility Scale Solar Siting Software* <i>Brant Peery, R. Sam Alessi, Randy Lee, Leng Vang and Scott Brown</i>	Workshop H3 - Agro-Ecosystem Modeling for Spatial Solutions to Watershed Conundrums
Should hydro-economic models be agent-based? Should they include non-economic behaviors and metrics? * <i>Julien Harou</i>	QFD based Requirement Analysis and Metric Development for Public Participatory GIS* <i>Nagesh Kolagani, Palaniappan Ramu, Corne Van Elzakker and Koshy Varghese</i>	An R Package for Implementing Multiple Potential and Actual Evapotranspiration Formulations* <i>Danlu Guo, Seth Westra and Holger Maier</i>	Use of low-cost particle monitors to calibrate traffic-related air pollutant models in urban areas* <i>Edmund Seto, Elena Austin, Igor Novosselov and Michael Yost</i>	Web Mobile Application for Monitoring of Asian soybean rust in Brazil* <i>Jaçson Dalbosco, Willingthon Pavan, Fernando Portela de Assis, Cláudia Godoy and Emerson M. Del Ponte</i>	Statistical Evaluation of Intra-event Variability of Fecal Indicator in Stormwater Runoff from Different Land uses* <i>Ma Cristina Paule, Sheeraz Memon, Bum-Yeon Lee, Umer Raja, Chinzorig Sukhbaatar, Jey-R Ventura, Deokjin Jahng, Joo-Hyon Kang and Chang-Hee Lee</i>	Lessons learned from designing a shared cloud execution platform for frequency-severity models <i>Greg Soulagés and Ashwin Kashyap</i>	
Evaluation of Urbanization and Impacts on Water Quality in Nottawasaga Bay Using an Integrated 3-D Modeling Framework* <i>Venkat Kolluru, Shwet Prakash and Douglas Hodgins</i>	Development of a Policy Tool towards Particulate Pollution Abatement* <i>Athena Progiou, Ioannis Ziomas, Nickolaos Panagiotou and Christos J. Boukouvalas</i>	Using Locally Distributed Computing to Aid Water Quality Modelling* <i>Saurav Kumar, Adil Godrej and Thomas Grizzard</i>	Atmospheric chemistry effects at different scales and impacts on human health from a modelling perspective <i>Massimo Viena, Mathew R Heal, Ruth M Doherty and Stefan Reis</i>		Varying the temporal resolution of river nutrient boundary conditions to a coupled hydrodynamic-biogeochemical model of a coastal system has surprisingly little impact on model results* <i>Barbara Robson, Jenny Skerratt, Mathieu Mongin, Karen Wild-Allen and Mark Baird</i>	Cyberinfrastructure for Scalable Access to Stream Flow Analysis* <i>Tyler Wible, Wes Lloyd, Olaf David and Mazdak Arabi</i>	
Rethinking Riverine Habitat Quality: Integrated Systems Modeling to Improve Watershed Habitat Management and Decision Making* <i>Ayman Alajffi and David Rosenberg</i>	User Centered Design: developing tools for encouraging climate change adaptation* <i>Peter Verweij, Rob Lokers and Natascha Marinova</i>	Characterizing Spatial Random Fields through a Bayesian Inverse Modelling Framework and the High Throughput Computing - HTCondor* <i>Carlos Osorio-Murillo, Daniel Ames, Yoram Rubin and Heather Savoy</i>	Using Geostatistical Tools for Mapping Traffic-Related Air Pollution in Urban Areas* <i>Lubos Matejicek</i>		Long-term numerical simulation to reach stability condition within the river mouth; case study: Rosetta promontory, Egypt* <i>Ali Masria, Abdelazim Negm, Moheb Iskander, Oliver Saavedra and Mohamed Mohamed</i>		
Land Cover and Water Supply in Mountain Regions: Supporting Stakeholders Using Distributed Ecohydrological Modeling* <i>Enrique Vivoni</i>	Crowdsourcing Collection of Crop Performance Data with Low-Cost Sensors <i>Daryl Hepting</i>	Parallel Simulation of Environmental Phenomena – Discussion Paper* <i>Ralf Denzer, Peter Fitch, Ioannis Athanasiadis and Dan Ames</i>	Balancing Externalities and Industrial Costs in Air Quality Planning* <i>Claudio Carnevale, Giorgio G Guariso, Enrico Pisoni and Marialuisa Volta</i>				
Thursday, June 19, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)				Thursday, June 19, 2014 – Block 1 (9:00 a.m. – 10:20 a.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling			Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A6 - Semantics, Metadata and Ontologies of Natural Systems	Session H4 - Modeling for Low Carbon Economies	Session C2 - Accounting for Uncertainty in Decision Support by Treating Model Assumptions as Scenarios	Session H3 - Agro-Ecosystem Modeling for Spatial Solutions to Watershed Conundrums			
Moderator - Gene Whelan	Moderator - Ioannis N. Athanasiadis	Moderator - Alexey Voinov	Moderator - Tony Jakeman	Moderator - Timothy Green			Moderator - Tom Purucker
Multi-level automated sub-zoning of water distribution systems* <i>Lina Sela Perelman, Michael Allen, Ami Preis, Mudasser Iqbal and Andrew Whittle</i>	The Virtual Learning Commons (VLC): Enabling Sharing and Innovation for Flexible, Responsive Solutions* <i>Deana Pennington, Aida Gandara, Nicholas Del Rio and Omar Ochoa</i>	Assessment of Policies for Low-Carbon Agriculture by means of Multi-Agent Simulation* <i>Evgeny Latynskiy, Thomas Berger and Christian Troost</i>	Innovative Techniques for Quantitative Scenarios in Energy and Environmental Research: a Review* <i>Evelina Trutnevyte and Celine Guivarch</i>	Integrated modelling of social-ecological systems: The MAELIA high-resolution multi-agent platform to deal with water scarcity problems* <i>Olivier Therond, Christophe Sibertin-Blanc, Romain Lardy, Benoit Gaudou, Maud Balestrat, Yi Hong, Thomas Louail, Eunata Mayor, Van Bai Nguyen, David Panzoli, José-Miguel Sanchez-Perez, Sabine Sauvage, Patrick Taillandier, Maroussia Vavasseur and Pierre Mazzega</i>			Workshop A1 - Scientific Computing in the Cloud
Water resources vulnerability to climate change in the Upper Santa Cruz River, Arizona <i>Eylon Shamir, Carlos Carrillo Carrillo, Christopher Castro, Hsin-I Chang, Sharon Megdal, Susanna Eden and Jacob Prietto</i>	Designing Innovative Linked Open Data and Semantic Technologies in Agro-environmental Modelling* <i>Rob Lokers, Stasinos Konstantopoulos, Armando Stellato, Rob Knaben and Sander Janssen</i>	Empirical Agent-Based Modelling of Everyday Pro-environmental Behaviours at Work* <i>Gary Polhill, Tony Craig, Amparo Alonso-Betanzos, Noelia Sanchez-Marzoño, Óscar Fontenla-Romero, Adina Dumitru, Mirilia Bonnes, Marino Bonaiuto, Giuseppe Carrus, Ferdinando Fornara, Fridanna Maricchiolo, Linda Steg, Angela Ruepert, Kees Keizer and Ricardo García-Mira</i>	Application of Neural Network to flood forecasting, an examination of model sensitivity to rainfall assumptions <i>Seyyed Adel Alavi Fazel, Michael Blumenstain and Hamid Mirfenderesk</i>	Trade-offs of biogas production – comparing crop rotations under different climate scenarios* <i>Sven Lautenbach, Martin Volk, Michael Strauch, Gerald Whittaker and Ralf Seppelt</i>			
Use of the WARMP model to identify sources of oxygen impairment and potential management strategies for the San Joaquin River Watershed* <i>William Stringfellow, Joel Herr, Scott Sheeder, Shelly Gulati, Gregory Weissmann, Mary Kay Camarillo and Michael Jue</i>	Standards and the Dutch Digital Delta <i>Ronald R. P. van Nooijen, Bram Havers, Tamar Bakker, Jasper Schroder, Nick C. van de Giesen and Alla Kolechkina</i>	Understanding Regime Shift in Land Systems with System Dynamics* <i>Zhanli Sun and Daniel Müller</i>	Assessing certainty and uncertainty in habitat suitability models by identifying parameters with extreme outputs* <i>Baihua Fu and Joseph Guillaume</i>	Land-use change impacts on water resources in Northern Mongolia <i>Christian Schweitzer and Jörg A. Priess</i>			
Use of a one-dimensional link-node model to develop total maximum daily load strategies for the San Joaquin River Estuary* <i>Mary Kay Camarillo, William Stringfellow, Joel Herr, Scott Sheeder, Gregory Weissmann, Shelly Gulati and Ashley Stubblefield</i>	An Application of geographical and Statistical Linked Data to Ecology: The Brazilian Cerrado Ontology Network and Qualitative Reasoning Models* <i>Adriano Souza, Oscar Corcho, Paulo Salles and Luis Vilches-Blázquez</i>	Linking governance storylines with the D-EXPANSE model to explore the power system transition pathways* <i>Evelina Trutnevyte</i>	Qualitative Reasoning Models to Summarize and Compare Metapopulation Theories* <i>Isabella Sá-Leão, Adriano Souza, Fernando Goulart and Paulo Salles</i>	Testing site-specific parameterizations of longwave radiation integrated in a GIS-based hydrological model* <i>Giuseppe Formetta, Olaf David and Riccardo Rigon</i>			

Thursday, June 19, 2014 – Block 2 (10:40 a.m. – 12:20 p.m.)				Thursday, June 19, 2014 – Block 2 (10:40 a.m. – 12:20 p.m.)			
Lahaina	Bay	Pacific	Tropic	Surf	Kawai	Maui	Oahu
Stream H - Applications of Environmental Modeling	Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling	Stream H - Applications of Environmental Modeling	Stream C - Environmental Modeling Uncertainty Issues	Stream H - Applications of Environmental Modeling			Stream A - Cyberinfrastructure and Cloud Computing for Environmental Modeling
Session H2 - Water Resources Management and Planning - Modeling and Software for Improving Decisions and Engaging Stakeholders	Session A6 - Semantics, Metadata and Ontologies of Natural Systems	Session H4 - Modeling for Low Carbon Economies	Session C2 - Accounting for Uncertainty in Decision Support by Treating Model Assumptions as Scenarios	Session H3 - Agro-Ecosystem Modeling for Spatial Solutions to Watershed Conundrums			
Moderator - Yakov Pachepsky	Moderator - Ioannis N. Athanasiadis	Moderator - Alexey Voinov	Moderator - Joseph Guillaume	Moderator - Timothy Green			Moderator - Steve Kopp
Modelling biofilm based technologies with activated sludge unit processes: A short cut to performance simulation? * <i>Noelle Jones, Eoghan Clifford and Maebh Grace</i>	A Conceptual Data Model for Integrating Fields and Agents <i>Merijn P. de Bakker, Kor de Jong and Derek Karssenberg</i>	Integration of Models for Low Carbon Economy* <i>Getachew Belete and Alexey Voinov</i>	Enhancing the policy relevance of scenarios through a dynamic analytical approach* <i>Celine Guivarch, Vanessa Schweizer and Julie Rozenberg</i>	Linking UPGM, a Modified EPIC-based Plant Growth Model, with a Component-based Watershed Model (AgES-W) for Assessing Water Quality and Management* <i>Greg McMaster, James Ascough II, Debra Edmonds, Olaf David, Larry Wagner, Fred Fox, Robert Erskine, Holm Kipka and Timothy Green</i>			Workshop A2 - Hydrology in the Cloud - A World Water Online Hands-On Tutorial
Improved Implicit Stochastic Optimization Technique for Multireservoir Water Systems under Drought Conditions* <i>Andrea Sulis</i>	Ontology Mapping in Semantic Time Series Processing in Climate Change Prediction* <i>Bojan Božić, Jan Peters-Anders and Gerald Schimak</i>	Assessing the transition to a low-carbon economy using actor-based system-dynamic models* <i>Dmitry V. Kovalevsky and Klaus Hasselmann</i>	Global sensitivity analysis of key parameters in a process-based sugarcane growth model – A Bayesian approach* <i>Justin Sexton and Yvette Everingham</i>	Challenges/Advances in Distributed Watershed Modeling: A Review and Application of the AgroEcoSystem-Watershed (AgES-W) Model* <i>Jim Ascough, Timothy Green, Olaf David, Holm Kipka, Greg McMaster, Manfred Fink, Peter Krause and Sven Kralisch</i>			
Dynamic Feedback between Land-Use and Hydrology in Ecosystem Services Assessment* <i>Seleshi Yalew, Tobias Pilz, Christian Schweitzer, Stefan Liersch, Johannes van der Kwast, Marloes Mul, Ann van Griensven and Pieter van der Zaag</i>	Metadata extraction using semantic and natural language processing techniques* <i>Rob Knapen, Thomas Hüsing, Klaus Jacob, Yke Van Randen, Stefan Reis, Onno Roossenschoon and Sander Janssen</i>	A best-worst scaling model of climate change abatement by Australian farmers* <i>Marit Kragt, Nikki Dumbrell and Fiona Gibson</i>	Hypothesis Testing for Management: Evolving and Answering Closed Questions Using Multiobjective Visualization* <i>Joseph Kasprzyk, Joseph Guillaume, Joshua Kollat and Chris Danilo</i>	AgroEcoSystem-Watershed (AgES-W) Model Scaling and Delineation* <i>Timothy Green, Robert Erskine, Jim Ascough, Bruce Vandenberg, Holm Kipka, Olaf David and Michael Coleman</i>			
Development of a decision support tool to allocate irrigation water on competitive basis: application to Kathiraveli Village, Sri Lanka* <i>Tom Le Cerf and Muhammed Bhuiyan</i>		Climate mitigation: what is the cost? <i>Celine Guivarch and Julie Rozenberg</i>		Simulating interactions between cropping system spatial distribution and irrigation withdrawal dynamics in a water deficit river basin* <i>Clément Murgue, Olivier Therond, Maroussia Vavasseur and Romain Lardy</i>			
				A decision support system approach for identifying pollutant source for optimization of beneficial management practices scenario modelling in Lake Winnipeg watersheds* <i>Isaac Wong, Luis Leon, Jason Vanrobaeys, Craig McCrimmon and Phil Fong</i>			

Bold = Presenter, * = Paper can be found published in the conference proceedings