



# SWAT

2014 Conference  
Pernambuco, Brazil

## Conference Agenda

JULY 30 - AUGUST 1, 2014 – ARMAÇÃO HOTEL, PORTO DE GALINHAS, BRAZIL



The Soil and Water Assessment Tool (SWAT) is a public domain model jointly developed by USDA Agricultural Research Service (USDA-ARS) and Texas A&M AgriLife Research, part of The Texas A&M University System.

SWAT is a small watershed to river basin-scale model to simulate the quality and quantity of surface and ground water and predict the environmental impact of land use, land management practices, and climate change. SWAT is widely used in assessing soil erosion prevention and control, non-point source pollution control and regional management in watersheds.

## Conference Overview

Time	Wednesday, July 30	Thursday, July 31	Friday, August 1
8:00 – 9:20 a.m.	Registration and check-in (8:00 – 9:00 a.m.)	D1 Hydrology D2 Large Scale Applications D3 Climate Change Applications	
9:30 – 10:50 a.m.	Inaugural Session (9:00 – 10:50 a.m.)	E1 Environmental Applications E2 Database and GIS Application and Development E3 Sediment, Nutrients, and Carbon (P*)	H1 Environmental Applications H2 Sediment, Nutrients, and Carbon
10:50 – 11:10 a.m.	Coffee break and group photo	Coffee break	Coffee break
11:10 – 12:30 p.m.	A1 Large Scale Applications A2 Hydrology A3 Environmental Applications (P)	F1 Climate Change Applications F2 EPIC/APEX Modeling System F3 Hydrology	I1 Model Development I2 Climate Change Applications
12:30 – 2:00 p.m.	Lunch	Lunch	Lunch
2:00 – 3:20 p.m.	B1 Climate Change Applications B2 Model Development B3 Hydrology (P)	G Poster session	J1 Environmental Applications J2 Large Scale Applications
3:20 – 3:40 p.m.	Coffee break	Tours	Coffee break
3:40 – 5:00 p.m.	C1 Sensitivity Calibration and Uncertainty C2 Hydrology C3 Environmental Applications (P)		Closing session
7:00 p.m.	Reception		
7:30 p.m.		Dinner gala	

(P) = Portuguese session

(P\*) = The last presentation in this session will be in Portuguese

# Wednesday, July 30, 2014

8:00 – 9:00 a.m.      **PARTICIPANT CHECK-IN AND REGISTRATION**  
Convention Hall - I

9:00 – 10:50 a.m.      **INAUGURAL SESSION**  
Room: Caboclinhos

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9:00 – 9:05 a.m.	Inauguration	<b>Representative from UFPE and UFRPE</b>
9:05 – 9:20 a.m.	Welcome Address	<b>Prof. Dra. Suzana Montenegro</b> , UFPE, Brazil
9:20 – 10:10 a.m.	Keynote Speaker	<b>Dr. Javier Tomasella</b> , CEMADEN-INPE, Brazil
10:10 – 10:30 a.m.	Model Development	<b>Dr. Jeffrey G. Arnold</b> , USDA-ARS, USA
10:30 – 10:50 a.m.	Closing	<b>Dr. Raghavan Srinivasan</b> , Texas A&M University, USA

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10:50 – 11:10 a.m.      **COFFEE BREAK AND GROUP PHOTO**  
Convention Hall - I

11:10 – 12:30 p.m.      **SESSION A1: LARGE SCALE APPLICATIONS**      **Moderator:** Celso Ribeiro  
Room: Caboclinhos      *UFJF, Brazil*

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11:10 – 11:30 a.m.	Michael Strauch	Setting up SWAT for the Upper Amazon
11:30 – 11:50 a.m.	Celso B. M. Ribeiro	Parameterization of physical and climatic characteristics in the Amazon basin for hydrological simulation with SWAT model
11:50 – 12:10 p.m.	Ina Pohle	Coping with challenges in the application of SWIM in a heavily managed lowland region in Central Europe
12:10 – 12:30 p.m.	Philip Gassman	The SWAT Literature Database: Overview of Database Structure and Key SWAT Literature Trends

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# Wednesday, July 30, 2014

11:10 – 12:30 p.m.	<b>SESSION A2: HYDROLOGY</b> Room: Maracatu	<b>Moderator:</b> Nadia Bonumá - UFSC, Brazil
11:10 – 11:30 a.m.	Pierluigi Cau	The SWAT model and a web-based information system to assess the water balance of Sardinia (Italy)
11:30 – 11:50 a.m.	Nadia Bernardi Bonuma	Hydrologic assessment in a Brazilian forest watershed using SWAT model.
11:50 – 12:10 p.m.	Sofia Beatriz Havrylenko	Agricultural drought analysis in the Arrecifes basin (Pampas region, Argentina) using the SWAT model
12:10 – 12:30 p.m.	Raghavan Srinivasan	Hydrology of Tigris river and its tributaries contributing to Hawizeh marsh
11:10 – 12:30 p.m.	<b>SESSION A3: ENVIRONMENTAL APPLICATIONS (PORTUGUESE)</b> Room: Forró	<b>Moderator:</b> Abelardo Montenegro UFRPE, Brazil
11:10 – 11:30 a.m.	Ordilei Aparecido Gaspar de Melo	Environmental modeling and representation of the dynamics of environmental systems
11:30 – 11:50 a.m.	Ruy de Aguiar Araújo Júnior	Slope Analyses in Watersheds using SWAT
11:50 – 12:10 p.m.	Laís Thomazini Oliveira	Calibration of the SWAT model for a watershed in Aracruz, ES, with the predominant land use eucalyptus
12:10 – 12:30 p.m.	Robertson Fontes Júnior	Impact of Land Use changes on Runoff in a Representative Basin in the Semiarid of Pernambuco State Using the SWAT Model
12:30 – 2:00 p.m.	<b>LUNCH</b>	

2:00 – 3:20 p.m.	<b>SESSION B1: CLIMATE CHANGE APPLICATIONS</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Tércio Ambrizzi - <i>USP-IAG, Brazil</i>
2:00 – 2:20 p.m.	Abdouramane Gado Djibo	Neural network for Seasonal Rainfall and Streamflow forecasting for West Africa: case of the Sirba basin
2:20 – 2:40 p.m.	Jianzhong Lu	Hydrological Response to Climate Change based on SWAT Model validated by Extreme Climatic Conditions in Fuhe River Basin of Poyang Lake, China
2:40 – 3:00 p.m.	Howard Van Meer	Hydrological Response of a Mountainous Catchment to Different Climate Scenarios
2:00 – 3:20 p.m.	<b>SESSION B2: MODEL DEVELOPMENT</b> Room: <a href="#">Maracatu</a>	<b>Moderator:</b> José Miguel Sanchez Perez <i>CNRS-ECOLAB, France</i>
2:00 – 2:20 p.m.	Katrin Bieger	Introduction to the new modular SWAT code: The input file structure explained using the example of the Little River Experimental Watershed, USA
2:20 – 2:40 p.m.	Shiv Prasher	Development and evaluation of SWATDRAIN model to simulate surface and subsurface runoff
2:40 – 3:00 p.m.	José Miguel Sanchez Perez	Water Exchange Between River Water and Groundwater in the floodplain of the Garonne River with SWAT model
3:00 – 3:20 p.m.	Sabine Sauvage	Trace metals transfer in rivers: a semi-empirical formulation to describe a complex sorption – desorption process to be implemented in SWAT model.

2:00 – 3:20 p.m.	<b>SESSION B3: HYDROLOGY (PORTUGUESE)</b> Room: <a href="#">Forró</a>	<b>Moderator:</b> Suzana Montenegro <i>UFPE, Brazil</i>
2:00 – 2:20 p.m.	Henrique dos Santos Ferreira	Projeção de cenários de uso e cobertura da terra e sua influência no escoamento superficial com utilização do modelo Soil and Water Assessment Tool (SWAT) em ambientes semiáridos
2:20 – 2:40 p.m.	João Henrique Macedo Sá	Analysis of the Rainfall Interception Model Used in Swat
2:40 – 3:00 p.m.	Luis Edgar Montenegro Terrazas	Analysis of the results produced by weather generators, in hydrologic design of hydraulic structures for water use and in extreme events
3:00 – 3:20 p.m.	Everton Barbosa da Luz	Climate Change Applications in Recife
3:20 – 3:40 p.m.	<b>COFFEE BREAK</b> <a href="#">Convention Hall - I</a>	
3:40 – 5:00 p.m.	<b>SESSION C1: SENSITIVITY CALIBRATION AND UNCERTAINTY</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Maria Betania Galvao dos Santos Freire <i>UFRPE, Brazil</i>
3:40 – 4:00 p.m.	Haw Yen	A Framework for Incorporation of Alternative Uncertainty Sources Using the SWAT Model
4:00 – 4:20 p.m.	Danielle de Almeida Bressiani	Searching for better model performance and reduced optimization time: different calibration methods on different watershed locations
4:20 – 4:40 p.m.	Romain Lardy	Calibration of simulation platforms including highly interweaved processes: the MAELIA multi-agent platform
4:40 – 5:00 p.m.	Alexandre Soares	Calibration of SWAT Model in a Small Watershed by Means of Measured Streamflow and Suspended Sediment Data

3:40 – 5:00 p.m.      **SESSION C2: HYDROLOGY**      **Moderator:** Otto Rotunno  
Room: [Maracatu](#)      Filho - *COPPE-UFRJ, Brazil*

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3:40 – 4:00 p.m.      Xiaohua Dong      Investigating the spatial scale effects on runoff simulation by using SWAT Model

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4:00 – 4:20 p.m.      José Guimarães Carvalho Neto      Application of SWAT model for streamflow simulation in the Una River Basin, Northeast of Brazil

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4:20 – 4:40 p.m.      Ricardo Minoti      Assessment of the applicability of the SWAT model to simulate the streamflow in a rural catchment in the Federal District (Brazil)

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4:40 – 5:00 p.m.      Waldenio Gambi de Almeida      A flow forecast system for hydroelectric production

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3:40 – 5:00 p.m.      **SESSION C3: ENVIRONMENTAL APPLICATIONS (PORTUGUESE)**      **Moderator:** Frederico  
Room: [Forró](#)      Cláudio Peixinho  
CPRM/SGB, Brazil

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3:40 – 4:00 p.m.      Eberval Marchioro      Sediment Yield Modeling Using an Alternative Environmental Scenario in Northwestern Rio de Janeiro – Brazil

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4:00 – 4:20 p.m.      Cleene Lima      Experimental and Simulated Runoff by the Curve Number Model for Cassava Cropping Under Different Agricultural Practices

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4:20 – 4:40 p.m.      Teresa Cristina Pissarra      Territorial Planning in River Uberaba's Watershed, Mg, Brazil

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4:40 – 5:00 p.m.      Jonathan Mota da Silva      The hydrological environmental services of Permanent Preservation Areas (PPA): a case study with numerical modeling in the Ribeirão das Posses watershed

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7:00 p.m.      **RECEPTION**  
[Located at the front of the Armação Hotel](#)



8:00 – 9:20 a.m.	<b>SESSION D1: HYDROLOGY</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Carlos Galvão <i>University of Campina Grande, Brazil</i>
8:00 – 8:20 a.m.	Carlos Galvão	SWAT's hydro-sedimentological simulations for the Brazilian semi-arid
8:20 – 8:40 a.m.	Djesser Sergio	Hydrological Modeling of Cubatão Do Sul Catchment Using the Swat Model – Soil and Water Assesement Tool
8:40 – 9:00 a.m.	Kim Loi Nguyen	Assessing Water Availability in PoKo catchment using SWAT model, KonTum province, Vietnam
9:00 – 9:20 a.m.	Teresa Cristina Pissarra	Analysis of the São Lourenço watershed in Matão - SP using ArcSWAT
8:00 – 9:20 a.m.	<b>SESSION D2: LARGE SCALE APPLICATIONS</b> Room: <a href="#">Maracatu</a>	<b>Moderator:</b> Philip Gassman <i>Iowa State University, USA</i>
8:00 – 8:20 a.m.	Calvin Creech	Anthropogenic Impacts to the Sediment Budget of the São Francisco River Navigation Channel using SWAT
8:20 – 8:40 a.m.	Hagen Koch	Modelling of water availability and water management for the São Francisco Basin, Brazil
8:40 – 9:00 a.m.	Philip Gassman	Hydrologic, Water Quality and Crop Productivity Impacts of Climate Change in the Ohio-Tennessee River Basin
9:00 – 9:20 a.m.	Mauricio E. Arias	Coupling SWAT with land cover and hydropower models for sustainable development in the Mekong Basin

8:00 – 9:20 a.m.	<b>SESSION D3: CLIMATE CHANGE APPLICATIONS</b> Room: <a href="#">Forró</a>	<b>Moderator:</b> Magna Soelma Beserra de Moura <i>Embrapa Semiarido, Brazil</i>
8:00 – 8:20 a.m.	Indrajeet Chaubey	Watershed scale environmental and biodiversity sustainability analysis of land use change and climate change using SWAT model
8:20 – 8:40 a.m.	Javier Osorio	Use of SWAT for optimizing irrigation strategies for sugarcane production on the Island of Maui, Hawaii.
8:40 – 9:00 a.m.	Abelardo Montenegro	Characterization of dry and rainy years in the Alto do Ipanema Basin using the Quantile Method.
9:00 – 9:20 a.m.	Hamidreza Solaymani Osbooei	IWRM; A Goal-Based Performance Approach in Formulation of Adaptation to Climate Change in Karkheh Basin, Iran
9:30 – 10:50 a.m.	<b>SESSION E1: ENVIRONMENTAL APPLICATIONS</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Eduardo Mario Mendiondo <i>USP-EESC, Brazil</i>
9:30 – 9:50 a.m.	Bloodless Dzwauro	Application of SWAT to water quality modelling in the Rietspruit sub-basin of South Africa
9:50 – 10:10 a.m.	Antônio Heriberto de Castro Teixeira	Large Scale Energy Balance in the Juazeiro Municipality, Brazil
10:10 – 10:30 a.m.	Yaobin Meng	A Model for Heavy Metal Dynamics Coupled with SWAT and Its Application in Liuyang River Upstream Basin in China
10:30 – 10:50 a.m.	Eduardo Mario Mendiondo	On contrasting field evidences of water quality to perform physically-based SWAT simulations in challenging Brazilian biome under change

9:30 – 10:50 a.m.	<b>SESSION E2: DATABASE AND GIS APPLICATION AND DEVELOPMENT</b> Room: Maracatu	<b>Moderator:</b> José Alberto Fernandez Monteiro <i>UFSJ, Brazil</i>
9:30 – 9:50 a.m.	José Alberto Fernandez Monteiro	Comparison between Climate Forecast System Reanalysis (CFSR) weather data and data from meteorological stations in Brazil to evaluate the suitability of CFSR data for SWAT
9:50 – 10:10 a.m.	Venkatesh Merwade	Spatio-temporal visualization for SWAT outputs using SWATShare
10:10 – 10:30 a.m.	Michael Strauch	Minimizing spatial error in HRU aggregation
10:30 – 10:50 a.m.	Narendra Kumar Tiwary	Web-based Real Time Flood Forecasting using SWAT model
9:30 – 10:50 a.m.	<b>SESSION E3: SEDIMENT, NUTRIENTS, AND CARBON</b> Room: Forró	<b>Moderator:</b> Ricardo de O. Figueiredo - <i>Embrapa, Brazil</i>
9:30 – 9:50 a.m.	Alineaurea Silva	Availability of crop residues and soil fertility in communities Pontal Project, Petrolina-PE, in the dry season.
9:50 – 10:10 a.m.	Alineaurea Silva	Chemical characterization of agricultural waste found in communities Lajedo, Amargosa and Vira beju in Petrolina-PE during the drought period.
10:10 – 10:30 a.m.	Laís Thomazini Oliveira	Key Factors That Influence Water Quality in Watersheds with Eucalyptus Plantation ( <b>PORTUGUESE</b> )
10:50 – 11:10 a.m.	<b>COFFEE BREAK</b> Convention Hall - I	

11:10 – 12:30 p.m.	<b>SESSION F1: CLIMATE CHANGE APPLICATIONS</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Humberto Rocha - <i>USP-IAG, Brazil</i>
11:10 – 11:30 a.m.	Boini Narsimlu	Effect of climate change on hydrological regimes of Sind River Basin, India using SWAT Model
11:30 – 11:50 a.m.	Isabela Iensen	Simulation of green and blue water impacts caused by climate changes in Apucarantina River watershed, Southern Brazil.
11:50 – 12:10 p.m.	Danielle de Almeida Bressiani	Climate change impacts on the streamflow of a semi-arid watershed, Northeast Brazil
12:10 – 12:30 p.m.	Tue (Minh) Vu	Drought Assessment of future stream flow over the Sesan river basin in Vietnam
11:10 – 12:30 p.m.	<b>SESSION F2: EPIC/APEX MODELING SYSTEM</b> Room: <a href="#">Maracatu</a>	<b>Moderator:</b> Robin Taylor <i>Texas A&amp;M AgriLife, USA</i>
11:10 – 11:30 a.m.	Claire Baffaut	Multi-site evaluation of APEX for crop and grazing land in the Heartland region of the US
11:30 – 11:50 a.m.	Jaehak Jeong	Improvement of the Variable Storage Coefficient Method with Water Surface Gradient as a Variable
11:50 – 12:10 p.m.	Robin Taylor	Estimating plant available water for general crop simulations in ALMANAC/APEX/EPIC/SWAT
12:10 – 12:30 p.m.	Susan Wang	Integrating uncertainty in model parameters, input, and model structure in watershed modeling

11:10 – 12:30 p.m.

**SESSION F3: HYDROLOGY**  
Room: Forró

**Moderator:** Nadia  
Bonumá - UFSC, Brazil

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11:10 – 11:30 a.m.

M. Rafee Majid

Hydrological Impact of Large Scale Conversion of Rubber to Oil Palm Plantation

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11:30 – 11:50 a.m.

Tássia Mattos Brighenti

Water Balance Estimation in Rio Negrinho Basin, Southern Brazil.

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11:50 – 12:10 p.m.

Gilbert Nyageikaro  
Nyandwaro

Modelling Runoff with Satellite Data

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12:10 – 12:30 p.m.

Jose Miguel Sanchez  
Perez

The role of the alluvial floodplain to modeling water discharge using SWAT model in the Amazon catchment

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12:30 – 2:00 p.m.

**LUNCH**

2:00 – 3:20 p.m.

## SESSION G: POSTER SESSION

Room: Caboclinhos

Cristyano Ayres Machado	Water Production in River Basin Siriri-Sergipe
Christiane Brazão	Sensitivity analysis of soils parameters and their influences on streamflow simulation in a small watershed, Northwest RJ, Brazil
Christiane Brazão	The influence of different land cover and land use on hydrological response of Barro Branco Watershed, Rio de Janeiro, Brazil
José Guimarães Carvalho Neto	Assessment of runoff in the Tapacurá River Basin (Pernambuco state, Brazil) using SWAT model
José Guimarães Carvalho Neto	Application of SWAT Model to Evaluate the Influence of Bank Vegetation on Runoff and Sediment Yield in the Basin of Siriri River, Sergipe
Kássia Castro	Impacts of a specific soil database on streamflow simulation with SWAT in an experimental rural catchment of the Brazilian savanna
Ygor Cristiano Brito Morais	Análise do balanço hídrico sequencial em área de Caatinga
Marcio da Silva Santos	Morphometric characterization and precipitation data in watersheds using SWAT model for apply better practices management
Pedro dos Santos Ferreira	Aplicação do modelo SWAT para simulação dos impactos das mudanças climáticas sobre a vazão do rio Pontal no estado de Pernambuco
Matheus Durães	Calibration and validation of SWAT hydrological model for Sapucaí river Basin, Brazil
Josimar Fernandes	Use of the SWAT Model for Evaluation of Flow and Runoff in Hydroelectric Plant of Xingo
Joanna Gebala	The impact of temporary data uncertainty on SWAT calibration results
Antonio Leal	SWAT applications in eastern Amazonia: A case study of the Acará Mirim and Bujaru river basin in State of Pará, Brazil.
Janice Leivas	Spectral response of winter maize producers mesoregions
Ali Najafinejad	Simulating Discharge and Sediment Production Using SWAT in Chehelchai Watershed, Golestan Province, Iran
Vinícius Augusto de Oliveira	Assessment of the current soil erosion in Piranga River Basin, Minas Gerais state
Viviane Pedroso Gomes	Utilização Do Modelo Swat Para Análise de Cenários Hipotéticos Na Bacia Hidrográfica Do Rio Brígida No Estado de Pernambuco

Teresa Cristina Pissarra	Hydrologic Modeling in Ribeirão Padua Diniz Watershed, in Northwest São Paulo, Brazil.
Rogério Resende Martins Ferreira	The Soil Water Assessment Tool to estimate the spatial and temporal patterns of soil erosion in the Vertentes do Rio Grande Watershed, Minas Gerais State, Brazil
José Miguel Sanchez-Pérez	Assessment of climate changes impacts on the hydrological cycle of the Garonne watershed.
Sabine Sauvage	Modeling of the hydrology and nitrogen fluxes in a semi-arid catchment area by SWAT model: the Tafna River in the North-West of Algeria
Ana Silva	Assessment of streamflow responses to different land use and land cover changes in a mountainous area of Rio de Janeiro, Brazil
Janaina Silva	Evaluation of land uses for Piabanha River watershed in Rio de Janeiro, Brazil using SWAT
Carlos Silva Dambroz	SWAT application for Santa Maria of Vitória watershed, at Espírito Santo (ES), Brazil
Hiroaki Somura	Application of SWAT to Lake Shinji watershed for estimating nutrient loadings from surrounding river basins
Hamil Uribe	Modeling of the Cachapoal river watershed as a tool to study precipitation change impacts on water availability for irrigation
João Villela	Simulation of Surface Runoff and Sediment Yield at Itaqueri River Watershed, São Paulo State, Brazil
Dan Yu	The modification of subdaily SWAT model and its application in Qingjiang river basin

3:20 p.m.

## **TOURS**

[Take a tour of the Porto de Galinhas Commercial Center of Arts and Crafts or visit the Natural Pools](#)

[Meet at the Armação Hotel reception area](#)

7:30 p.m.

## **DINNER GALA**

[Located in the Baobá room at the Armação Hotel](#)

# Friday, August 1, 2014

9:30 – 10:50 a.m.	<b>SESSION H1: ENVIRONMENTAL APPLICATIONS</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Jorge Enoch Lima - <i>Embrapa, Brazil</i>
9:30 – 9:50 a.m.	Amilcare Porporato	A statistically consistent determination of the antecedent soil moisture condition (retention parameter) of the SCS method
9:50 – 10:10 a.m.	Teresa Cristina Pissarra	Erosion Prediction using SWAT model in Córrego Tijuco Watershed, São Paulo State, Brazil
10:10 – 10:30 a.m.	Teresa Cristina Pissarra	Modeling of Sheet Erosion in Watersheds Using GIS: A Case Study of Watershed of River Uraim, Pará, Brazil
10:30 – 10:50 a.m.	Leandro de Almeida Salles	Impacts of using different soil databases on streamflow simulation in the Pipiripau river basin
9:30 – 10:50 a.m.	<b>SESSION H2: SEDIMENT, NUTRIENTS, AND CARBON</b> Room: <a href="#">Maracatu</a>	<b>Moderator:</b> Jaehak Jeong <i>Texas A&amp;M AgriLife, USA</i>
9:30 – 9:50 a.m.	Ricardo Figueiredo	Hydrobiogeochemical fluxes and its relation to land use changes at small catchments in the Marapanim River Basin, Pará state, Brazil
9:50 – 10:10 a.m.	Carlos Tornquist	SWAT Modeling at Marrecas Watershed in Rio Grande do Sul, Brazil
10:10 – 10:30 a.m.	Joanna Gebala	Seasonal variability of nutrients loads discharged into the Baltic Sea
10:50 – 11:10 a.m.	<b>COFFEE BREAK</b> <a href="#">Convention Hall - I</a>	



# Friday, August 1, 2014

11:10 – 12:30 p.m.	<b>SESSION I1: MODEL DEVELOPMENT</b> Room: Caboclinhos	<b>Moderator:</b> Nicola Fohrer <i>CAU Kiel, Germany</i>
11:10 – 11:30 a.m.	Alexander Strehmel	Towards an Improvement of the Water Balance on Steep Slopes - Development of a Correction Algorithm of the Runoff Curve Number for Slope Angles up to 100%
11:30 – 11:50 a.m.	Nicola Fohrer	Improving the groundwater process representation by using SWAT3S and a multi-metric based model evaluation
11:50 – 12:10 p.m.	Charles Cheruiyot	SWAT Modeling of Runoff Pollution Load in Sondu Watershed, Lake Victoria Basin
11:10 – 12:30 p.m.	<b>SESSION I2: CLIMATE CHANGE APPLICATIONS</b> Room: Maracatu	<b>Moderator:</b> Martin Volk <i>UFZ - Helmholtz Centre for Environmental Research, Germany</i>
11:10 – 11:30 a.m.	Howard Van Meer	Modelling climate change scenarios in a scarcely gauged lowlands catchment
11:30 – 11:50 a.m.	Venkata Reddy K.	Impact of Climate Change on water resources of USDA-ARS experimental watershed
11:50 – 12:10 p.m.	Anne Gädeke	Comparing the eco-hydrological model SWIM to conceptually different hydrological models in climate change impact assessments focusing on low flows
12:30 – 2:00 p.m.	<b>LUNCH</b>	

# Friday, August 1, 2014

2:00 – 3:20 p.m.	<b>SESSION J1: ENVIRONMENTAL APPLICATIONS</b> Room: <a href="#">Caboclinhos</a>	<b>Moderator:</b> Suzana Montenegro <i>UFPE, Brazil</i>
2:20 – 2:40 p.m.	Danielle de Almeida Bressiani	Effects of Atlantic Forest Patches on Water-Regulation Ecosystem Services
2:40 – 3:00 p.m.	Abelardo Montenegro	Hydrological Modelling in Representative Catchments in Brazil Using the SWAT Model: the Experience of the REHIDRO Network
3:00 – 3:20 p.m.	Ganga Ram Maharjan	Application of SWAT: Assessing environmental efficiency of various land use scenarios in Haeon catchment, South Korea
2:00 – 3:20 p.m.	<b>SESSION J2: LARGE SCALE APPLICATIONS</b> Room: <a href="#">Maracatu</a>	<b>Moderator:</b> Michael White - <i>USDA-ARS, USA</i>
2:00 – 2:20 p.m.	Michael White	Development of Sediment and Nutrient Export Coefficients for US Ecoregions.
2:20 – 2:40 p.m.	Antônio Heriberto de Castro Teixeira	Spatial Distribution of Corn Water Requirements in the São Paulo State, Brazil
2:40 – 3:00 p.m.	Antônio Heriberto de Castro Teixeira	Characterization of the Wine Grape Thermo-Hydrological Conditions in the Brazilian Semi-Arid Region
3:30 p.m.	<b>CLOSING DISCUSSIONS</b> Room: <a href="#">Caboclinhos</a>	



We would like to thank the following conference sponsors:

