

# **Conference** Agenda



International Soil & Water Assessment Tool Conference June 24-26, 2015





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, June 24	Thursday, June 25	Friday, June 26
8:30 – 9:30 a.m.	Registration and check-in		
9:00 – 10:00 a.m.	Inaugural session (9:30 – 11:00 a.m.)	<ul> <li>D1 Soil and Watershed Modeling</li> <li>D2 Climate Change Applications</li> <li>D3 Large Scale Applications</li> <li>D4 Bioenergy Applications for the U.S. Corn Belt Region (9:00 – 10:20 a.m.)</li> </ul>	<ul> <li>H1 Overview of Recent SWAT Development</li> <li>H2 Model Development</li> <li>H3 Landscape Processes and Landscape / River Continuum</li> <li>H4 Hydrology</li> </ul>
10:10 - 11:10 a.m.		<ul><li>E1 Model Development</li><li>E2 Hydrology</li><li>E3 Sensitivity Calibration and Uncertainty</li></ul>	<ul> <li>I1 Environmental Applications</li> <li>I2 Sensitivity Calibration and Uncertainty</li> <li>I3 Model Development</li> <li>I4 Biofuel and Plant Growth</li> </ul>
11:10 - 11:30 a.m.	Coffee break and group photo	Coffee break	Coffee break
11:30 - 1:00 p.m.	<ul> <li>A1 Large Scale Applications</li> <li>A2 Climate Change Applications</li> <li>A3 Environmental Applications</li> <li>A4 Hydrology</li> </ul>	<ul> <li>F1 Regional Water Issues and Challenges for the Past, Present, and Future</li> <li>F2 EPIC/APEX Modeling System</li> </ul>	<ul> <li>J1 Database and GIS Application and Development</li> <li>J2 Climate Change Applications</li> <li>J3 Hydrology</li> <li>J4 EPIC/APEX Modeling System</li> </ul>
1:00 - 2:00 p.m.	Lunch	Lunch	Lunch
2:00 - 3:30 p.m.	<ul> <li>B1 SWAT Applications</li> <li>Incorporating Rice</li> <li>Production</li> <li>B2 Database and GIS</li> <li>Application and</li> <li>Development</li> <li>B3 BMPs</li> <li>B4 Sediment, Nutrients, and</li> <li>Carbon</li> </ul>	G1 Poster session	<ul> <li>K1 Environmental Applications</li> <li>K2 Climate Change Applications</li> <li>K3 Large Scale Applications</li> <li>K4 Urban Processes and Management / Hydrology</li> </ul>
3:30 - 4:00 p.m.	Coffee break	Coffee break	Coffee break
4:00 - 5:30 p.m.	<ul> <li>C1 Environmental Applications</li> <li>C2 Climate Change Applications</li> <li>C3 EPIC/APEX Modeling System (4:00 - 5:40 p.m.)</li> <li>C4 Sensitivity Calibration and Uncertainty</li> </ul>	Tour (4:30 – 7:30 p.m.)	Closing discussions
8:30 p.m.		Dinner gala	

## Wednesday, June 24

8:30 – 9:30 a.m.	PARTICIPANT CHECK-IN Hall	AND REGISTRATION
9:30 – 11:00 a.m.	INAUGURAL SESSION Room: Nautilus	
9:30 – 10:00 a.m.	Welcome Address	Dott. Luigi Filippini, CRS4, Italy
		Dott. Roberto Deidda, University of Cagliari, Italy
10:00 – 10:30 a.m.	Model Development	Dr. Jeffrey G. Arnold, USDA-ARS, USA
10:30 – 11:00 a.m.	Closing	Dr. Raghavan Srinivasan, Texas A&M University, USA
11:00 – 11:30 a.m.	COFFEE BREAK AND GR Hall	ОИР РНОТО
11:30 – 1:00 p.m.	SESSION A1: LARGE SCA Room: Nautilus	<b>MALE APPLICATIONS</b> <i>Woderator:</i> Mike White <i>USDA-ARS, USA</i>
11:30 – 1:00 p.m. 11:30 – 11:50 a.m.		
	Room: Nautilus	USDA-ARS, USA Building Capacity in Utilizing NASA Remote Sensing Observations in SWAT for Water Resources and
11:30 – 11:50 a.m.	Room: Nautilus Amita Mehta	USDA-ARS, USA Building Capacity in Utilizing NASA Remote Sensing Observations in SWAT for Water Resources and Agricultural Management Applications Catchment experiences from the UK – ground based and

11:30 – 1:00 p.m.	SESSION A2: CLIMATE CHANGE APPLICATIONS Room: Cyprea		<b>Moderator:</b> Antonio Lo Porto IRSA-CNR, Italy	
11:30 – 11:50 a.m.	Antonio Lo Porto	Hydrological and water resource responses to clima change for a temporary river		
11:50 – 12:10 p.m.	David Bosch	Changing Hydrology under a Changing Climate for a Coastal Plain Watershed		
12:10 – 12:30 p.m.	Marino Marrocu	Reducing hydrological budget modeling uncertainty related to climate induced change.		
12:30 – 12:50 p.m.	Monica Piras	Climate change effects in Mediterranean basin usir	a medium-sized ng the tRIBS hydrologic model	

11:30 – 1:00 p.m.	SESSION A3: ENVIRONMENTAL APPLICATIONS Room: Astrea		<b>Moderator:</b> José Miguel Sánchez-Pérez CNRS- ECOLAB, France
11:30 – 11:50 a.m.	Eugenio Molina- Navarro	Synergistic effects of climat water flow, nutrient export Mediterranean limno-reser	s and trophic state in a
11:50 – 12:10 p.m.	Odile Leccia	Modelling lixiviated nitrate hydrological (SWAT) and hy models: an application to the watershed (SW France)	/dro-geological (MARTHE)
12:10 – 12:30 p.m.	Paul D. Wagner	Reflecting the interdepend hydrology in SWAT modelir	
12:30 – 12:50 p.m.	Suria Darma Tarigan	Impact of Oil Palm Expansio Quality in Merangin Tembe Provinces	on on Water Yield and Water si Watershed, Jambi

## Wednesday, June 24

11:30 – 1:00 p.m.	SESSION A4: HYDROLOG Room: Alvania	GY Moderator: A.K. Gosain IIT, India
11:30 – 11:50 a.m.	Claudia Canedo	Analysis of Flash floods in the Andean highlands
11:50 – 12:10 p.m.	Jens Hartwich	The impact of woody biomass production on the water balance of the North German Lowlands - A hydrological modelling with SWAT
12:10 – 12:30 p.m.	John Obiero	Determining the Effect of Land Use Change on Streamflow Using Soil Water Assessment Tool (SWAT)
12:30 – 12:50 p.m.	Tatenda Lemann	Assessing the impact of precipitation and temperature on hydrological responses in three small-scale catchments in the Ethiopian Highlands
1:00 – 2:00 p.m.	LUNCH	
2:00 – 3:30 p.m.	SESSION B1: SWAT APP RICE PRODUCTION Room: Astrea	LICATIONS INCORPORATING Moderator: Balaji Narasimhan IIT-Madras, India
2:00 – 2:20 p.m.	Philip Gassman	Simulation of rice paddy systems in SWAT: current methods, improved modified approaches and recommendations for developing a rice paddy simulation module
2:20 – 2:40 p.m.	Jaehak Jeong	Progresses in developing national scale model for agricultural NPS assessment in South Korea: Phase I – rice paddies
2:40 – 3:00 p.m.	Tasuku Kato	SWAT model improvement for discharge process in paddy fields
3:00 – 3:20 p.m.	Balaji Narasimhan	Development of an improved irrigation subroutine in SWAT to simulate the hydrology of rice paddy grown under submerged conditions

2:00 – 3:30 p.m.	SESSION B2: DATABAS DEVELOPMENT Room: Nautilus	<b>E AND GIS APPLICATION AND Moderator:</b> Hendrik Rathjens <i>Purdue</i> <i>University, USA</i>
2:00 – 2:20 p.m.	Ann van Griensven	Inter-comparison and Assimilation of Remote Sensing Evapotranspiration into a Physically Distributed Hydrological model (SWAT), Upper Blue Nile Basin
2:20 – 2:40 p.m.	Daniel Fuka	Brokering as a framework for hydrological model repeatability
2:40 – 3:00 p.m.	Mauro Di Luzio	Development of Soil Model Parameter Repositories for Modeling in CEAP
3:00 – 3:20 p.m.	Michael Strauch	On HRU aggregation and its effect on SWAT model output
2:00 – 3:30 p.m.	SESSION B3: BMPs Room: Cyprea	<b>Moderator:</b> James Almendinger St. Croix Watershed Research Station, USA
2:00 – 2:20 p.m.	James Almendinger	Spatial scaling of phosphorus export coefficients and load reductions due to agricultural best management practices
2.20 - 2.40  pm	Nicola Fabrar	Field data based implementation of land management

2.00 – 3.30 p.m.	Room: Cyprea	Almendinger St. Croix Watershed Research Station, USA	
2:00 – 2:20 p.m.	James Almendinger	Spatial scaling of phosphorus export coefficients and load reductions due to agricultural best management practices	
2:20 – 2:40 p.m.	Nicola Fohrer	Field data-based implementation of land management and terraces on the catchment scale for SWAT in the Three Gorges Region, China	
2:40 – 3:00 p.m.	Olga Vigiak	A new R-SWAT Decision Making Framework for the Spatial Identification of BMP Related to Freshwater Management	
3:00 – 3:20 p.m.	Raghavan Srinivasan	Evaluating the impact of implemented BMPs in Richard Chambers Watershed of Texas	

2:00 – 3:30 p.m.	SESSION B4: SEDIMEN Room: Alvania	NT, NUTRIENTS, AND CARBON	Moderator: Claire Baffaut USDA-ARS, USA
2:00 – 2:20 p.m.	Amal Markhi	Assessment of solid load an reservoirs in the High Atlas ousing SWAT Model	d siltation potential of dams of Marrakech (Moorcco)
2:20 – 2:40 p.m.	Amita Mehta	Assessing Water Quality Ser Variability in the Missouri R Simulations	-
2:40 – 3:00 p.m.	Michael Winchell	Application of a coupled SW evaluate phosphorus critica management alternatives o Prespa, Macedonia	l source areas and land
3:00 – 3:20 p.m.	Pratiksha Jain	GIS based Distributed Proce Modelling using Modified N Model in Indian Region	

3:30 – 4:00 p.m.	COFFEE BREAK Hall		
4:00 – 5:30 p.m.	SESSION C1: ENVIRONM Room: Cyprea	ENTAL APPLICATIONS	<b>Moderator:</b> Jarosław Chormański <i>Warsaw</i> University of Life Sciences, Poland
4:00 – 4:20 p.m.	Jan Gregar	Model swat as an integrated catchment Švihov	d management tool in water
4:20 – 4:40 p.m.	Jaroslaw Chormanski	Integration and Validation o Interception Storage into dia model	C
4:40 – 5:00 p.m.	Stefan Julich	Application of the new grid- model in a small mountaino	
5:00 – 5:20 p.m.	Wang Me	Applying treated municipal catchment: Modelling effect sediment and nutrient loads	ts on stream discharge,

4:00 – 5:30 p.m.	SESSION C2: CLIMATE C Room: Alvania	HANGE APPLICATIONS Moderator: Vikram Mehta Center for Research on the Changing Earth System, USA	
4:00 – 4:20 p.m.	Abelardo Montenegro	Climate change impacts in a Brazilian semiarid catchment: forecasts, and management perspectives using SWAT model	
4:20 – 4:40 p.m.	Dennis Trolle	Preparing for the future: simulating agricultural practices, hydrology and nutrient exports under future climates	
4:40 – 5:00 p.m.	Eugenio Molina- Navarro	Hydrological impact assessment of the Guadalupe River Basin (Mexico) under climate change scenarios.	
5:00 – 5:20 p.m.	Farzad Emami	Evaluating the impacts of climate change on streamflow and water resources management: Aharchai River, Iran, case study	

4:00 – 5:40 p.m.	SESSION C3: EPIC/APEX MODELING SYSTEM Room: Astrea		<b>Moderator:</b> Javier Osorio Leyton <i>Texas A&amp;M</i> AgriLife Research, USA
4:00 – 4:20 p.m.	Abebe Chukalla	Effect of fertilizer strategies on the grey water footprint in rain-fed and irrigated agriculture	
4:20 – 4:40 p.m.	Claire Baffaut	Success and challenges met during the calibration of APEX on large plots	
4:40 – 5:00 p.m.	Luca Doro	Climate Change impact a natural pasture	assessment on Mediterranean
5:00 – 5:20 p.m.	Norman Manyowa Meki	Drought induced nitrogen and phosphorus credits in corn/soybean rotations in the Upper Mississippi River Basin	
5:20 – 5:40 p.m.	Jim Kiniry	Derivation of Crop Paran Systems Modeling	neter Attributes for Cropping

4:00 – 5:30 p.m.	SESSION C4: SENSITIVITY CALIBRATION AND UNCERTAINTY Room: Nautilus		<b>Moderator:</b> Ann van Griensven UNESCO-IHE, Netherlands
4:00 – 4:20 p.m.	Ann van Griensven	A two-step global sensitivit using simple screening met quantitative methods	y analysis of a SWAT model, hods and advanced
4:20 – 4:40 p.m.	Katrin Bieger	Using expert knowledge of constrain multi-objective ca	, ,
4:40 – 5:00 p.m.	Latif Kalin	Parameter Transferability a Dataset on Model Prediction	-
5:00 – 5:20 p.m.	Ann van Griensven		ally Distributed Hydrological Change Impact Investigation Belgium

9:00 – 10:00 a.m.	SESSION D1: SOIL AND Room: Astrea	WATERSHED MODELING	<b>Moderator:</b> Feras Ziadat FAO, Italy
9:00 – 9:20 a.m.	Feras Ziadat	and sustainable soil mana	rt environmental modelling gement - within the context of p (GSP) and the International
9:20 – 9:40 a.m.	Feras Ziadat	-	cape Estimation and Evaluation ort soil-related environmental
9:40 – 10:00 a.m.	Marjolein Vogels	Food security and water a regions: Towards optimizi services	wailability in data-poor ng land use and ecosystem
9:00 – 10:00 a.m.	SESSION D2: CLIMATE ( Room: Cyprea	CHANGE APPLICATIONS	<b>Moderator:</b> Valentina Krysanova <i>PIK, Germany</i>
9:00 – 9:20 a.m.	Bahareh Kamali	Assessing drought vulnerability of agricultural production systems in the context of agro-hydrological modeling-A case study of Karkheh River Basin	
9:20 – 9:40 a.m.	Valentina Krysanova	Intercomparison of regional-scale hydrological models for climate impact assessment in 12 large river basins worldwide	
9:40 – 10:00 a.m.	Vikram Mehta	High-resolution Simulatio Variability Impacts on Wa Missouri River Basin with Tool (SWAT)	

9:00 – 10:00 a.m.	SESSION D3: LARGE SCAL Room: Alvania	E APPLICATIONS	Moderator: Sabine Sauvage CNRS-ECOLAB, France
9:00 – 9:20 a.m.	Gabriele Lamparter	Application of the land use and Water Assessment Too catchments at the Amazon Brazil	. ,
9:20 – 9:40 a.m.	Olga Vigiak	Impact of current conservation practices on sediment load reduction in the Danube River Basin	
9:40 – 10:00 a.m.	Santhi Chinnasamy	Modeling Sediment and Nu Great Lakes and Effects of Water Quality	•
9:00 – 10:20 a.m.	SESSION D4: BIOENERGY U.S. CORN BELT REGION Room: Nautilus	APPLICATIONS FOR THE	<b>Moderator:</b> Philip Gassman <i>Iowa State</i> University, USA
9:00 – 9:20 a.m.	Cibin Raj	SWAT model improvements to simulate bioenergy crops production	
9:20 – 9:40 a.m.	Indrajeet Chaubey	Application of improved SWAT model for bioenergy production scenarios in Indiana Watersheds	
9:40 – 10:00 a.m.	Philip Gassman	Assessment of Scenarios for the Boone River Watershed in North Central Iowa	
10:00 – 10:20 a.m.	Yiannis Panagopoulos	Assessment of Large-Scale	Scenarios for the Upper

10:10 – 11:10 a.m.	SESSION E1: MODEL DI Room: Nautilus	EVELOPMENT Moderator: David Bosch USDA-ARS, USA
10:10 – 10:30 a.m.	Haw Yen & Javier Osorio Leyton	C-SWAT: A Modified Revision of SWAT Using Consolidated Input Files
10:30 – 10:50 a.m.	Shenglan Lu	A macrophyte growth module for the SWAT model - impact of climate change and management on stream ecology
10:50 – 11:10 a.m.	Younggu Her	Comparison of hydrologic simulation outputs between SWAT2012 and the new modular SWAT code

10:10 – 11:10 a.m.	SESSION E2: HYDROLOG Room: Cyprea	GY Moderator: José María Bodoque Del Pozo UCLM, Spain
10:10 – 10:30 a.m.	Anna Malago'	Karst SWAT hydrological modeling at large and regional scale: the case study of the island of Crete
10:30 – 10:50 a.m.	Nana Mulyana	Application SWAT Model for Hydrological Study of Artificial Recharge - Through Infiltration Pond in The Water Replenishment, at Jubel Spring Mojokerto Indonesia
10:50 – 11:10 a.m.	Vinicius Louzada	Impacts of Land Use Change on Southeast Amazonia Basin Streamflow

10:10 – 11:10 a.m.	SESSION E3: SENSITIVIT UNCERTAINTY Room: Astrea	Y CALIBRATION AND Moderator: Karim Abbaspour EAWAG, Switzerland
10:10 – 10:30 a.m.	David Radcliffe	PRISM Climate Data Effect on Flow Calibration and Uncertainty of a SWAT Model Including Septic Systems
10:30 – 10:50 a.m.	Laurie Boithias	Does the use of fine climate stations grid and sub-basins delineation improve the modelling of river discharge and sediments fluxes at hourly time-step? Application of the SWAT model to Mediterranean flash floods
10:50 – 11:10 a.m.	Vincent Roth	Assessment of uncertainty in SWAT using variable spatial data resolution and sensitivity calibration in a meso-scale watershed in the Blue Nile Basin, Ethiopia
11:10 – 11:30 a.m.	COFFEE BREAK Hall	
11:30 – 1:00 p.m.	SESSION F1: REGIONAL CHALLENGES FOR THE F FUTURE Room: Nautilus	0
11:30 – 11:50 a.m.	Antonio Lo Porto	How SWAT and hydrological modeling can help in dealing with water resources and land management in Italy and in the EU
11:50 – 12:10 p.m.	Pierluigi Cau	Assessment of the water resources of the Sardinian Island using SWAT
12:10 – 12:30 p.m.	Karim Abbaspour	Using SWAT in two mega-scale watershed projects: Challenges and Results
12:30 – 12:50 p.m.	Raghavan Srinivasan	Trans-boundary Water Conflicts: Tigris River basin case study

11:30 – 1:00 p.m.	SESSION F2: EPIC/APEX MODELING SYSTEM Room: Cyprea		<b>Moderator:</b> Roberto Izaurralde <i>Texas A&amp;M</i> AgriLife Research, USA
11:30 – 11:50 a.m.	Robin Taylor	Effect of Physical Catchment Flow: The Case of Ribb and ( Nile, Ethiopia	t Characteristics on River Gumara Rivers in Upper Blue
11:50 – 12:10 p.m.	Candiss Williams	Modeling Dynamic Soil Prop Survey	erties in APEX for U.S. Soil
12:10 – 12:30 p.m.	Evelyn Steglich	APEX and the CEAP Assessm on Grazing Lands	ent of Conservation Benefits
12:30 – 12:50 p.m.	Robin Taylor	Changes in the fate of pestic production systems under p	
1:00 – 2:00 p.m.	LUNCH		
2:00 – 3:30 p.m.	SESSION G1: POSTERS Hall		
Salam Abbas	Stream Flow Modelling of Flat Watershed under Conditions of Limited Data in Semi-arid Region: Case Study of Euphrates River in Kufa Basin, Iraq		
Talal Alharbi	Quantification of the partitioning of precipitation over the Almadinah watershed, Saudi Arabia using SWAT model		
Hans Estrup Andersen	A SWAT model for Denmark		
Sangsoo Baek	Application of the SWAT model for estimating Discharge and Water Quality from rice paddy site in the Yeongsan watershed, Korea		
Andreas Bauwe	Hydrologic evaluation of the curve number and Green and Ampt methods in a tile- drained catchment using SWAT		
Laurie Boithias	Modelling river discharge at sub-daily time-step: comparison of the performances of the conceptual SWAT model and the process-oriented MARINE model		
Laurie Boithias	Modelling river discharge and sediments fluxes at sub-daily time-step: Insight into the CRUE-SIM project devoted to Mediterranean coastal flash floods		

Laurie Boithias	Hydrological modelling of the Bafing River (Senegal River basin): towards better management of the Manantali multipurpose dam
Laurie Boithias	Simulating potassium load from a dairy farming watershed with the modified SWAT Model
Sbaa Boubeker	hydrological modeling in a semi-arid area with SWAT, Case of Wadi Wahrane ( Algeria)
Paweł Burandt	Application of the MIKE 11 Ecolab Modeling System in Assesment of Spatial and Temporal Changes of Conductivity - A Case Study Drweca River Northen Poland
Alberto Carletti	The SWAT model to assess hydrological processes in arid environment (SE Tunisia), in the frame of WADIS-MAR project
Emil Dimitrov	Simulation of Soil Water Regime in Sofia Region Using SWAT and Newhall Models
Marta Dobrovodska	Water retention assessment in traditional agricultural landscape (case study Liptovská Teplička, Slovakia)
Jorge Enoch Furquim Werneck Lima	Preliminary results of the SWAT model application in an experimental rural catchment of the Brazilian savanna
Jorge Enoch Furquim Werneck Lima	Appraisal of possible climate change impacts on the sediment yield in a rural catchment of the Brazilian savanna
Juan Manuel Garcia Diaz	Hydrological modelling: River runoff modelling of large River basins in Estonia.
Isabel Grijalvo Diego	Modelling Pesticide Contamination Under Baseline Conditions in Two Small Agricultural Catchments
Youen Grusson	Hydrological modelling in highly anthropized basins: example from the Garonne basin using the SWAT model
Joanna Gudowicz	Effects of GIS data quality on SWAT model stream flow and sediment simulations in a lowland watershed (NW Poland)
Yumei Huang	Impacts of water resources management on food security in China
Muhammad Shahid Iqbal	Evaluating floods in the Kabul River basin of Pakistan with the SWAT model
Hagen Koch	Potential impacts of climate change on hydropower generation in the Tagus River Basin using an ensemble of climate scenarios
Odile Leccia	Assessing the effectiveness of Best Management Practices with the SWAT-GENLU modeling framework.
Ronalton Machado	Identification of Environmentally Sensitive Areas and subsidies to a Management Plan for Watershed through techniques of modeling and GIS

Antenor Oliveira Aguiar Netto	Hydrological Modeling River Tributaries San Francisco, The Brazilian Semiarid
Antenor Oliveira Aguiar Netto	Effects of Variability Scenarios of Land Use on the Dynamics of Flow and Sediment in Jacaré River, Brazil
Melissa Peraza Castro	Assessment of heavy metal fluxes in a forest watershed in Basque Country (Northen Spain) using SWAT model
Christiane Pinto	Comparative analysis of physical parameters sensitivity in two different geomorphologically watershed, Rio de Janeiro, Brazil
Monica Piras	Assessment of climate change effects in a Mediterranean basin with different hydrologic models
Celso Bandeira de Melo Ribeiro	Effects of Global and Measured Weather Datasets on Amazon Basin Streamflow SWAT simulation
David Rivas	Preliminary Hydrological Water Resources Assessment of CEGA-ERESMA-ADAJA watershed using SWAT model
José Miguel Sánchez Pérez	Glyphosate concentration in the Basin of Monday River: Modeling of river transport with SWAT model
Jose Miguel Sanchez- Perez	Long term environmental research in the ITAIPU Catchment: SWAT Simulation of Flow and Water Quality in the Carapa River Basin-Paraguay.
José Miguel Sánchez- Pérez	Sediment yield modeling using SWAT model in the Cañete basin (Peru).
José Miguel Sánchez- Pérez	Land use change impact on hydrology over Southern Peruvian Amazonas.
Sabine Sauvage	Evaluation of Climate Forecast System Reanalysis weather data driving hydrological model for the Yangtze River basin in China
Sabine Sauvage	How hydrological descriptors from SWAT model may help to understand recent shifts in the distribution of the semi-aquatic mammal species Galemys pyrenaicus
Sabine Sauvage	Modeling sediment dynamic in the Amazon-Andean basin of the Ucayali River, using the SWAT model
Sabine Sauvage	A tool to evaluate the impact of nutrient inputs to the eutrophication of the Itaipu Reservoir (Paraguay shore) : A multi catchment approach by modelling using SWAT model.
Sabine Sauvage	Long term environmental research in the ITAIPU Catchment: SWAT Simulation of Flow and Water Quality in the Carapa River Basin-Paraguay.
Sabine Sauvage	Combining interpolation of daily gauge and satellite rainfall data to evaluate an hydrological model (SWAT)

<ul> <li>Estimating groundwater recharge in post-mining and urban area using SWAT and FEFLOW models, case study from Poland.</li> <li>Erosion and Runoff Evaluation using the SWAT-Terrace Model</li> <li>Assessment of the impact of land use and land cover change on runoff characteristics of Lake Chini Catchment (Malaysia) using SWAT: a preliminary study</li> </ul>	
Assessment of the impact of land use and land cover change on runoff	
Estimation of Input Parameters of SWAT Model Through Geoprocessing	
Searching for synergies in crop rotation management – A simulation-optimization approach using SWAT	
Modeling of the hydrology and nitrogen fluxes in a regulated semi-arid catchment using SWAT model: TheTafna River (North-West Algeria)	

3:30 – 4:00 p.m.	COFFEE BREAK
	Hall

#### 4:30 – 7:30 p.m. **TOUR** Depart from Hotel Flamingo to Nora Archaeological Site

This cultural visit to the ruins of the archaeological site of Nora, an extraordinary example of a city of Punic and Roman times overlooking the homonymous beach, is an ideal excursion for those seeking real insight into the history of this ancient land, named Sardinia.

The tour will give participants the opportunity to take a step back in time and immerse themselves in the atmosphere of the ancient Punic/Roman town, where they will discover the old neighborhoods, the luxurious villas decorated with mosaics, temples, place of worship, thermal bath, aqueduct, forum, ancient cobbled streets and the splendid theater.

8:30 p.m.

DINNER GALA Hotel Flamingo Resort

9:00 – 10:00 a.m.	SESSION H1: OVERVIEN DEVELOPMENT Room: Nautilus	W OF RECENT SWAT	<b>Moderator:</b> Jeff Arnold USDA-ARS, USA
Jeff Arnold Katrin Bieger Hendrik Rathjens Javier Osorio	session is intended to g SWAT code and input f codes and input files, t account for routing pro terms of spatial interac	give interested SWAT users ile structure, the datasets he integration of landscap pocesses across the landsca	ons over the past few years. This s an overview of the new modular used to test and debug the new e units in the model to better pe, the increased flexibility in d and the tools that are currently he new modular code.
9:00 – 10:00 a.m.	SESSION H2: MODEL D Room: Cyprea	EVELOPMENT	<b>Moderator:</b> Indrajeet Chaubey <i>Purdue</i> University, USA
9:00 – 9:20 a.m.	Josicleda Galvincio	• •	Temporal Rainfall Variability in ershed of the Paraiba State-Brasil
9:20 – 9:40 a.m.	Josiclêda Galvincio	Impacts of Spatial Variation of Soil in Water Balance of Watershed of Paraiba State-Brasil	
9:40 – 10:00 a.m.	Zachary Easton	and hydrology using to	representation of soil properties pographically derived by invoking a data brokering

9:00 – 10:00 a.m.	SESSION H3: LANDSCA LANDSCAPE / RIVER CO Room: Alvania		<b>Moderator:</b> Nicola Fohrer Christian-Albrechts- University, Germany
9:00 – 9:20 a.m.	Andrew Sommerlot		n Global Forecast System turbed Watershed Models: pe Management
9:20 – 9:40 a.m.	Grzegorz Durlo	Impacts of deforestation on water balance components of a watershed on the Silesian Beskid	
9:40 – 10:00 a.m.	Kazi Rahman	Comparing SWAT and In estimation in two mour	nVEST models for water yield ntain regions

9:00 – 10:00 a.m.	SESSION H4: HYDROLO Room: Astrea	DGY Moderator: Jaehak Jeong Texas A&M AgriLife Research, USA
9:00 – 9:20 a.m.	Befekadu Taddesse Woldegiorgis	Improved Solution Methods for Instream Water Quality Simulations in SWAT
9:20 – 9:40 a.m.	Minjeong Kim	Imputation for Missing Baseflows using the SWAT and Machine Learning Models in Taehwa River, Korea
9:40 – 10:00 a.m.	Shenglan Lu	Simulating pesticide transport to tile drains via macropores using the SWAT model

10:10 – 11:10 a.m.	SESSION I1: ENVIRONMENTAL APPLICATIONS Room: Alvania		<b>Moderator:</b> Philip Gassman <i>Iowa State</i> University, USA
10:10 – 10:30 a.m.	Li-Chi Chiang	Evaluation of the impact of on the change on water quality in a watershed of Taiwan	<b>v</b>
10:30 – 10:50 a.m.	Lingfeng Zhou	A Heavy Metal Module Coup Application in Liuyang River	
10:50 – 11:10 a.m.	Sebastian Arnhold	Land use and land cover cha watersheds: Consequences water yield and water qualit	for ecosystem services of

10:10 – 11:10 a.m.	SESSION I2: SENSITIVIT UNCERTAINTY Room: Astrea	Y CALIBRATION AND	<b>Moderator:</b> Santhi Chinnasamy <i>Texas A&amp;M</i> AgriLife Research, USA
10:10 – 10:30 a.m.	Nora Herdiana Pandjaitan	Utilization of Soil and Wate Indonesia	er Assessment Tools in
10:30 – 10:50 a.m.	Nicola Fohrer	Diagnostic tools to underst the SWAT model	and hydrological processes in

10:10 – 11:10 a.m.	SESSION I3: MODEL DEV Room: Nautilus	T	<b>Noderator:</b> Katrin Bieger Texas A&M AgriLife Research, USA
10:10 – 10:30 a.m.	Billy Johnson	Advances in the modeling of W Fate and Transport of Contam	
10:30 – 10:50 a.m.	Gregory Espitalier Noel	An automated procedure for S Catchment scale.	WAT-LUD to be applied at
10:50 – 11:10 a.m.	Ryan Bailey	Comprehensive simulation of s hydrologic and water quality p systems using linked SWAT-MO	processes in watershed

10:10 – 11:10 a.m.	SESSION 14: BIOFUEL A Room: Cyprea	ND PLANT GROWTH	<b>Moderator:</b> Susan Wang Texas A&M AgriLife Research, USA
10:10 – 10:30 a.m.	Allan Jones	Simulation of Terrestrial SWAT	Biomes and Ecoregions with
10:30 – 10:50 a.m.	Lorenzo Di Lucia	•	ystem services, biodiversity and contribution of SWAT modelling overnance
10:50 – 11:10 a.m.	Thayse Aparecida Dourado Hernandes		term Brazilian sugarcane w: Monte Mor basin case study

11:10 – 11:30 a.m. **COFFEE BREAK** Hall

11:30 – 1:00 p.m.	SESSION J1: DATABASE DEVELOPMENT Room: Cyprea	AND GIS APPLICATION AND	<b>Moderator:</b> Dharmendra Saraswat University of Arkansas, USA
11:30 – 11:50 a.m.	Dharmendra Saraswat	Cloud Computing for Dynar Update file for SWAT	nically Creating Land Use
11:50 – 12:10 p.m.	Filipa Tavares Wahren	Combining digital soil mapp modeling in a data scarce w Portugal.	
12:10 – 12:30 p.m.	Meledje N'diaye Hermann	Dynamics of Water Erosion Watershed (Ghana-Cote D'i	•
12:30 – 12:50 p.m.	Pier Andrea Marras	SIDRO: a Web-GIS interface	for SWAT model

11:30 – 1:00 p.m.	SESSION J2: CLIMATE Room: Astrea	CHANGE APPLICATIONS	<b>Moderator:</b> Fred Hattermann <i>PIK, Germany</i>
11:30 – 11:50 a.m.	Etienne Brulebois	• •	ty of three contrasted north- eds to climate change (2006- I
11:50 – 12:10 p.m.	Fred Fokko Hattermann	After the flood is before change on flood hazard a	the flood: impacts of climate and risk in Germany
12:10 – 12:30 p.m.	Juan Jesús Gomiz Pascual	Future river projections f catchment on the west c	for a steep, rapid responding, oast of the UK

11:30 – 1:00 p.m.	SESSION J3: HYDROLOG Room: Alvania	Moderator: Antonio Lo Porto <i>IRSA-CNR, Italy</i>
11:30 – 11:50 a.m.	Arunbabu Elangovan	Evaluation and focusing of Soil and Water Conservation measures using SWAT model in Krishnagiri Reservoir Catchment area, South India
11:50 – 12:10 p.m.	Raghavan Srinivasan	SWAT Hourly Calibration using SWAT-CUP for a Large Watershed in Southeast Brazil and Flooding Applications
12:10 – 12:30 p.m.	Dorsaf Ben Othman	Study of the hydrological functioning of the Béjà river watershed, in the northwest of Tunisia, using the SWAT model
12:30 – 12:50 p.m.	Youen Grusson	An experiment on the temporal transposability of the SWAT model on a large contrasted watershed.

11:30 – 1:00 p.m.	SESSION J4: EPIC/APEX Room: Nautilus	<b>MODELING SYSTEM</b> <i>Texas A&amp;M AgriLife</i> <i>Research, USA</i>
11:30 – 11:50 a.m.	Jaehak Jeong	Recovery of salt contaminated soils using halophytic plants for sustainable agriculture and water resources
11:50 – 12:10 p.m.	Javier Osorio Leyton	Integrated Decision Support System: A framework that facilitates the integration of biophysical and economic models.
12:10 – 12:30 p.m.	Roberto Izaurralde	Biogeochemical Modeling with APEX
12:30 – 12:50 p.m.	Susan Wang	Impact of climate change and agroecosystem model configuration on simulated uncertainty of cotton production and water quality

1:00 – 2:00 p.m. LUNCH

2:00 – 3:30 p.m.	SESSION K1: ENVIRONM Room: Alvania	MENTAL APPLICATIONS	<b>Moderator:</b> Laurie Boithias <i>ECOLAB, France</i>
2:00 – 2:20 p.m.	José Monteiro	-	parian vegetation restoration a human-impacted Brazilian
2:20 – 2:40 p.m.	Ganga Ram Maharjan		ent practices to improve water is catchment: Haean catchment
2:40 – 3:00 p.m.	Rafal Ulanczyk	•	the integrated monitoring and Goczalkowice Reservoir basin
3:00 – 3:20 p.m.	Xiaoling Sun		ater - groundwater exchanges trification in alluvial floodplain SWAT model

2:00 – 3:30 p.m.	SESSION K2: CLIMATE CH Room: Astrea	HANGE APPLICATIONS	<b>Moderator:</b> Zachary Easton Virginia Tech, USA
2:00 – 2:20 p.m.	Joseph White		mass soil erosion with potential Arctic Ocean under continued
2:20 – 2:40 p.m.	Majid Taie Semiromi	Modeling the Impacts of Groundwater Recharge ir Iran, from an Ensemble o Projections	n the Gharehsoo Watershed,
2:40 – 3:00 p.m.	Marina Bolado Penagos	A Methodology to Assess Discharges to the Gulf of to the Alboran Sea	the Role of the River Cadiz on the Nutrient Supply
3:00 – 3:20 p.m.	Mayzonee Ligaray	Assessment on Hydrologi in the Chao Phraya River	c Response by Climate Change basin, Thailand

2:00 – 3:30 p.m.	SESSION K3: LARGE SCA Room: Cyprea	ALE APPLICATIONS Moderator: Mikołaj Piniewski Warsaw University of Life Sciences, Poland
2:00 – 2:20 p.m.	Hagen Koch	Climate and land-use change impacts in the São Francisco Basin, Brazil
2:20 – 2:40 p.m.	Mikołaj Piniewski	A large-scale and fine resolution SWAT model for an assessment of isolated climate change impact on unaltered flow regimes in Central Eastern Europe
2:40 – 3:00 p.m.	Nina Zarrineh	Large scale water quality modeling in Lithuania: parameterization, calibration and validation using PAIC- SWAT tool
3:00 – 3:20 p.m.	Raghavan Srinivasan	A global SWAT model

Roger Glick	Advancements In SWAT Urban Simulation Capabilities To Evaluate Green Stormwater Infrastructure In An Urban Catchment
Younggu Her	Effectiveness of decentralized green infrastructure for urban stormwater management
János Tamás	Evaluation of surface runoff conditions by high resolution terrestrial laser scanner in an intensive apple orchard
Mateusz Szcześniak	The role of daily precipitation interpolation for the SWAT model performance across different spatial and temporal scales
	Roger Glick Younggu Her János Tamás

3:30 – 4:00 p.m. **COFFEE BREAK** Hall

4:00 – 5:30 p.m. CLOSING DISCUSSIONS Room: Nautilus

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