SWAT 2017

June 28 – 30 | Warsaw, Poland





Agenda



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.

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Campus Map



Conference Overview

Time	Wednesday, June 28	Thursday, June 29	Friday, June 30
8:00 - 9:00	Registration and check-in		
9:00 - 10:30	Inaugural session	 D1 gSWATCloud Workshop D2 Sediment, Nutrients, and Carbon D3 Sensitivity Calibration and Uncertainty D4 Large Scale Applications 	 G1 Sediment, Nutrients, and Carbon G2 Climate Change Applications G3 Environmental Applications G4 Hydrology
10:30 - 10:50	Coffee break and group photo	Coffee break	Coffee break
10:50 - 12:20	A1 SWAT+	 E1 Database and GIS Application and Development E2 Environmental Applications E3 Climate Change Applications E4 EPIC/APEX Modeling System 	H1 Large Scale ApplicationsH2 Sensitivity Calibration and UncertaintyH3 BMPs
12:20 - 13:40	Lunch	Lunch	Lunch
13:40 - 15:10	 B1 Environmental Applications B2 Climate Change Applications B3 Hydrology B4 SWAT Review Papers and Large Scale Applications 	F1 Poster session (coffee will be served)F2 HAWQS World demonstration	11 Climate Change Applications12 Hydrology13 Environmental Applications
15:10 - 15:30	Coffee break		Coffee break
15:30 - 17:00	 C1 Model Development C2 SWAT Remote Sensing Applications C3 Climate Change Applications C4 Sediment, Nutrients, and Carbon 	Tours	Closing discussions
18:00 - 20:00	Reception		
20:30		Dinner gala	

8:00 - 9:00	PARTICIPANT CHECK-IN A Kryształowa (Crystal) Hal		RATION	
9:00 - 10:30	INAUGURAL SESSION Kryształowa (Crystal) Hal	I		
9:00 - 9:10	Welcome Address			t imierz Banasik , Vice Rector t, Warsaw University of Life d
9:10 – 9:35	Keynote Address Water management chal Central and Eastern Euro implications for hydrolog modelling	pe –	Division of Hydro	nasz Okruszko , Head of ology and Water Resources, sity of Life Sciences, Poland
9:35 – 9:50	Model Development		Dr. Jeffrey G. Ar	nold , USDA-ARS, USA
9:50 - 10:05	Closing		Dr. Raghavan Sr	inivasan , Texas A&M, USA
10:05 – 10:30	Intercomparison of clima impacts and uncertaintie simulated by multiple hy models in 12 large river b worldwide	s drological		r ysanova , Potsdam Institute act Research, Germany
10:30 – 10:50	COFFEE BREAK AND GRC Kryształowa (Crystal) Hal			
10:50 – 12:20	SESSION A1: SWAT+ Kryształowa (Crystal) Hal	I		Moderator: Jeffrey G. Arnold, USDA-ARS, USA
10:50 - 11:00	Jeffrey G. Arnold Raghavan Srinivasan	Overview		
11:00 - 11:15	Katrin Bieger	Watershed	l Configuration	
11:15 – 11:30	Mike White	Land Mana	igement	
11:30 - 11:45	Raghavan Srinivasan Chris George	QGIS Inter	face	
11:45 – 12:00	Peter Allen	New Modu	iles - Lite Approac	hes
12:00 - 12:20	Questions and discussion	1		

12:20 – 13:40	LUNCH Limba Dormitory		
13:40 – 15:10	SESSION B1: ENVIRONM Water Centre / Assembly		Moderator: Paul Wagner, Kiel University, Germany
13:40 - 14:00	Chih-Mei Lu	Integration of TUSLE in SW, prediction at a small mount Chenyulan watershed, Taiw	tainous catchment,
14:00 - 14:20	Paul Wagner	Dynamic versus static repre change in SWAT	esentations of land use
14:20 - 14:40	Tommaso Pacetti	Evaluating the supply of hy to support the water–food- river basin (Italy)	drologic ecosystem services –energy Nexus in the Arno
14:40 – 15:00	João Rocha	Impacts of climate and land quality of a vineyard-domin catchment	d use changes on the water nated Mediterranean
13:40 – 15:10	SESSION B2: CLIMATE CI APPLICATIONS Water Centre / Exhibitio	Shim	l erator: Hiroaki Somura, nane University, Japan
13:40 – 14:00	Yousef Hassanzadeh	Assessment of climate char green water resources avai by using CMIP5 model (Cas Basin, Iran)	lability in a large scale basin
14:00 - 14:20	Kristian Näschen	estimate impacts of land us	r Assessment Tool (SWAT) to se and climate change on carce catchment in Tanzania
14:20 – 14:40	Ina Pohle	discharge? - A comparative	gement alleviate the mate change impacts on river e study in two hydrologically ferent level of management
14:40 – 15:00	Jesus Uresti-Gil		pact of climate change and pport the development of an griculture in the peninsula of

13:40 - 15:10	SESSION B3: HYDROLOG Water Centre / Basemen	8,
13:40 - 14:00	Roger Glick	Innovations in Urban Application of SWAT
14:00 - 14:20	Jaehak Jeong	Estimation of streamflow and sediment yield for Watershed Prioritization in the Upper Blue Nile River Basin, Ethiopia
14:20 - 14:40	Majid Delavar	Basin-wide water accounting based on modified SWAT model (SWAT-FARS): an application for the Tashk- Bakhtegan Basin, Iran.
14:40 – 15:00	Markhi Amal	Application of SWAT model to assess snowpack development and streamflow in the Nfis watershed, Marakesh, Morocco
13:40 – 15:10	SESSION B4: SWAT REVIE LARGE SCALE APPLICATIO Water Centre / Assembly	State University, USA
13:40 - 14:00	Philip Gassman	The Soil and Water Assessment Tool (SWAT); Review of Global Use and Application Trends Circa 2017
14:00 - 14:20	Michael Strauch	Modifying global precipitation data for enhanced hydrologic modeling of tropical Andean watersheds
14:20 – 14:40	Fred Fokko Hattermann	Intercomparison of climate change impacts simulated by regional and global hydrological models in eleven large river basins including quantification of uncertainties using ANOVA

15:10 – 15:30 **COFFEE BREAK** Water Centre / Main Floor

15:30 – 17:00	SESSION C1: MODEL DE Water Centre / Assemb	-	Moderator: Mike White, USDA-ARS, USA
15:30 - 15:50	Seshu Tirupathi	Software Developmen	t Tools for SWAT
15:50 – 16:10	Dong Jun Lee	Development Web-bas Alpha Factor	sed SWAT LUC with SWAT BFlow
16:10 - 16:30	Christoph Schürz		rce worlds closer together - ing of SWAT projects in R
16:30 – 16:50	Befekadu Taddesse Woldegiorgis		rent Solution Schemes for CSTR- Quality Simulators Using ents and a Real Data
15:30 – 17:00	SESSION C2: SWAT REN APPLICATIONS Water Centre / Assemb		Moderator: Jarosław Chormański, WULS-SGGW, Poland
15:30 – 15:50	Suzana Montenegro	Calibration of a Brazilli evapotranspiration da	an watershed using MODIS ta
15:50 - 16:10	Thomas Poméon	Hydrologic modeling of sparsely gauged West Africar river basins using SWAT – a remote sensing approach	
16:10 - 16:30	Aklilu Teklesadik	Multi- step distributed	SWAT model calibration using

remote sensing ET and gauge flow data. Case study of

the Upper Blue Nile basin.

15:30 – 17:00	SESSION C3: CLIMATE Water Centre / Exhibit	CHANGE APPLICATIONS tion Hall / Main Floor	Moderator: Mikołaj Piniewski, WULS-SGGW, Poland
15:30 - 15:50	João Rocha	Impacts of climate change Alentejo (Portugal)	e on water availability in
15:50 - 16:10	Mikołaj Piniewski	Projected climate change extreme runoff in Poland	and its effects on mean and
16:10 - 16:30	Balaji Narasimhan	Multi Model Ensemble fo Climate Change on the Hy Basin	r Assessing the Impact of /drology of a South Indian River
16:30 - 16:50	Hiroaki Somura	SWAT application for wat Khulm watershed, Afghar	er resources management in nistan
15:30 – 17:00	SESSION C4: SEDIMEN Water Centre / Basem	NT, NUTRIENTS, AND CARBON ment Hall	Moderator: Sabine Sauvage, CNRS-ECOLAB, France
15:30 – 15:50	Matjaz Glavan		agement of soil erosion for of surface water bodies quality
15:50 – 16:10	Stefan Julich	The impact of load estimation procedures on the simulation of nitrogen fluxes in a small mountainous watershed in Germany.	
16:10 - 16:30	Clément Fabre	An assessment of organic carbon exports in an Arctic watershed presenting permafrost using the coupled SWAT model and Carbon modules.	
16:30 - 16:50	Clément Fabre	-	te transfers at a watershed odel using landscape units: ershed in France

18:00 - 20:00

RECEPTION Rectorate Building

9:00 – 10:30 SESSION D1: gSWATCloud WORKSHOP SWAT Models Calibration over Cloud Infrastructures Water Centre / Exhibition Hall / Main Floor

This workshop presents the gSWATCloud application as a solution for calibration and execution of multiple SWAT models, by multiple users, in a parallel and distributed manner, through the Web browser.

Presented by Dorian Gorgan and Victor Bacu from the Computer Science Department at the Technical University of Cluj-Napoca, Romania.

9:00 – 10:30	SESSION D2: SEDIMENT, Water Centre / Assembly	NUTRIENTS, AND CARBON Hall 2 / Upstairs	Moderator: Nicola Fohrer, Christian-Albrechts- University, Germany
9:00 – 9:20	Nicola Fohrer	How to improve the represe and their dynamics in eco-hy	
9:20 - 9:40	Natalja Čerkasova	Development of the Nemun for hydrology, sediment and	
9:40 - 10:00	Jeong Ho Han	Application of measured cha geometries data for flow and	
9:00 – 10:30	SESSION D3: SENSITIVITY UNCERTAINTY Water Centre / Basement		Moderator: Antonio Lo Porto, IRSA-CNR, Italy
9:00 - 9:20	Björn Guse	How do hydrological process temporal relevance under ch	
9:20 - 9:40	Christoph Schürz	A comprehensive sensitivity nitrogen loads involving mul	
9:40 - 10:00	Asim Jahangir Khan	Correction and informed Rep Data in a high mountainous and its Effect on SWAT-mod	• • • • • •

9:00 - 10:30	SESSION D4: LARGE S Water Centre / Assem		Moderator: Balaji Narasimhan, IIT-Madras, India
9:00 - 9:20	Balaji Narasimhan	Subbasin/ HRU Cond	ethod (AEM) and its Relevance with cept of SWAT for Potential Based Simple Ground Water Model
9:20 - 9:40	Prasad Daggupati	Lake Erie from Cana	model for contributing basins to dian side and evaluate the effects of cal budgets and streamflow
9:40 - 10:00	Talal Alharbi	Impact of climate ch	nange over Saudi Arabia
10:00 - 10:20	Tien-Viet Nguyen	SWAT application in national assessment	Economics of Hydropower - a t
10:30 – 10:50	COFFEE BREAK Water Centre / Main	Floor	
10:50 – 12:20	SESSION E1: DATABA APPLICATION AND DI Water Centre / Assem	EVELOPMENT	Moderator: Ignacy Kardel, WULS- SGGW, Poland
10:50 - 11:10	Ignacy Kardel	Open data for clima geoportal ClimateIm	te impact modelling in Poland: npact.sggw.pl
11:10 - 11:30	Arthur Hrast Essenfelder		abase: A Support Tool for the Long- mate Scenarios with SWAT
11:30 - 11:50	Thais Fujita	Response of Randor Over a Paraná River	nized Subsets of Rainfall Gauges Sub-basin
11:50 - 12:10	Thais Fujita	, .	nse of a Brazilian Catchment to and Land Cover Products

10:50 – 12:20	SESSION E2: ENVIRONM Water Centre / Assembly		Moderator: Ann van Griensven, UNESCO-IHE, Netherlands
10:50 - 11:10	Ann van Griensven	An adaptation to the vegeta SWAT for tropical condition	-
11:10 - 11:30	Joanna O'Keeffe	Index-based analysis of clim ecologically relevant flow re	
11:30 – 11:50	Hien Ha Ngoc	Integration of SWAT and QU modeling in a data scarce ba River basin of Vietnam	
10:50 – 12:20	SESSION E3: CLIMATE CH Water Centre / Exhibition		Moderator: Valentina Krysanova, PIK, Germany
10:50 - 11:10	Paweł Marcinkowski	Effect of climate change on nutrient losses in two lowla	,
11:10 - 11:30	Fred Fokko Hattermann	Quantification of risks and c impacts on floods and droug	-
11:30 - 11:50	Bahareh Kamali	Climate change impacts on and agricultural droughts in	meteorological, hydrological, semi-arid regions of Iran
11:50 – 12:10	Manish Shrestha	Application of SWAT model complex bias correction tec analysis	
10:50 – 12:20	SESSION E4: EPIC/APEX I Water Centre / Basemen		Moderator: Claire Baffaut, USDA-ARS, USA
10:50 - 11:10	Claire Baffaut	APEX model simulation of e benefits from upland buffer	
11:10 - 11:30	Jaehak Jeong	The Agricultural Policy/Envi Model: Recent activities, mo	ronmental eXtender (APEX) odel development, and plans
11:30 - 11:50	Jeff Arnold	Nutrient Delivery and Agrice on Water Quality in the Des	

12:20 - 13:40

LUNCH Limba Dormitory

13:40 – 15:10	SESSION F1: POSTERS Coffee will be served during the session. Water Centre / Main Floor
Sameh Abou Rafee	Analysis of spatial distribution of observed ground-based data and large scale modelling of the Parana River Basin
Claire Baffaut	Predicting Drought in an Agricultural Watershed given Climate Variability
Mojgansadat Azimi	Simulation of the effects different rangeland improvements scenarios on evapotranspiration of Case study: Gorganrud Watershed-Golestan-Iran
Sbaa Boubeker	Hydrological modeling with SWAT under contrasting climate in a semi - arid zone: case of the wadi wahrane, Algeria.
Carla Camargos	How uncertainty of simulating water resources is affected by different input data information content
Kyunghwa Cho	Developing a SWAT Sub-Module for Simulating Dynamics of Cyanobacteria, Green algae, and Diatom
Il-Moon Chung	Hydrologic component analysis at the Water Curtain Cultivation site according to annual rainfall pattern
Cenk Donmez	Determination of the Environmental Impacts of Agricultural Land Use on Lower Seyhan Plain using SWAT Model
Vanessa Cristina Dos Santos	Land use change effects on hydrological regime in the Xingu watershed - Brazil
Marc Fasel	Blue water scarcity in the Black Sea catchment: identifying key actors in the water- ecosystem-energy-food nexus
Josicleda Galvincio	Parallelization of SWAT calibration: a Windows HPC approach
Josicleda Galvincio	Challenges of Hydrological Modeling in a Basin in Northeast Brazil
Matjaz Glavan	Understanding of water and nitrogen cycle in an irrigated Mediterranean area in southern Turkey
Matjaz Glavan	Modelling diffuse and point source pollution risks in the case of transboundary Sotla river basin
Joanna Gudowicz	Application of the Soil and Water Assessment Tool for hydrological modeling in a High-Arctic catchment: Brøggerelva watershed, NW Spitsbergen
Marilen Haver	Modelling mountain hydrology using the SWAT model to understand the impact of abiotic environmental variables on the health of high altitude aquatic ecosystems
Qianwen He	Streamflow calibration of a semi-distributed hydrological model by single and multi-site measured data on the Yuan River Catchment, China

Jaehak Jeong	Water Resource Assessment, Gaps, and Constraints of Vegetable Production in Ethiopia
Chul-gyum Kim	Changes in runoff characteristics of streams in Jeju Island, Korea due to climate change
Petr Krpec	Assessment of SWAT model performance in case of Olešná reservoir watershed, Czech Republic
Juan Luis Lechuga- Crespo	Modelling potential impacts of Climate Change on hydrology of a small urban catchment on the North of Spain
Amina Mami	Assessing the Impact of Regional Climate Models on Hydrology of a Semi-Arid Watershed Using SWAT Model: The Case of the Wadi Tafna (Algeria)
Julio Perez-Sanchez	Impact of temporal resolution of rainfall inputs on the performance of the SWAT model in Peninsular Spain
Giovanni Francesco Ricci	Comparison between SWAT and AnnAGNPS model simulations in a Mediterranean watershed
Hande Sagir	SWAT Modeling of Seasonal Differences in Nitrate Leaching
José Miguel Sánchez- Pérez	Modelling nitrate in-stream retention using SWAT model and STATISTICAL model at watershed scale: the case of the Garonne watershed (France)
Carlos Amiliton Santos	Hierarchical Calibration of SWAT Model in Paraguaçu Basin River.
Sabine Sauvage	Modelling flash floods at hourly time-step: relevance of the SWAT model evaluated with the MARINE model
Sabine Sauvage	Using a SWAT and a GIS coupled approach to assess the role of Amazonian wetlands in carbon and nitrogen biogeochemical cycles.
Christoph Schürz	SWATpasteR: Parallel SWAT execution and sensitivity testing in R
Christoph Schürz	SWATfarmR: A simple rule-based scheduling of management operations for SWAT
Javier Senent- Aparicio	Forecast of Instantaneous Peak Flow using SWAT and ANN
Zhenyao Shen	Identifying critical source areas for the control of nonpoint source pollution using the SWAT model
Pin-Chih Shih	Assessment of SWAT sediment export and transport prediction in watersheds of different geomorphological and hydroclimatic conditions in Taiwan

Ye Tuo	Joint use of snow and discharge time series for SWAT model calibration
Janja Vrzel	Using SWAT in a coupled modeling framework for the development of renewable gases in the heating market
Xi Wei	Modelling self-purification in rivers from hydro-morphological units to watershed scale
Paweł Wilk	Evaluation of climate change and land use impact on suspended sediment production and its quality in different catchments of Poland
Michał Wróbel	Determination of the CN parameter in the forest catchment area on the example of Łutownia river in Bialowieza Primeval Forest
Amin Zettam	Application of the SWAT model to investigate hydrology, sediment and nitrate flux towards the Mediterranean Sea: case of the North Africa catchments

13:40 – 15:10SESSION F2: HAWQS WORLD DEMONSTRATION
Water Centre / Exhibition Hall / Main Floor

Dr. Raghavan Srinivasan from Texas A&M University, USA will demo HAWQS World: a web-based interactive application that allows users to run customized SWAT models based on existing, calibrated models around the world. (HAWQS World is an expansion of the HAWQS application developed for the USA.)

15:30 – 20:30 TOUR: CRUISE ON THE RIVER VISTULA (WISŁA)

Buses will depart campus at 15:30 and return by 20:30 for the dinner gala. The tour will last from 16:00 to 20:00.

The River Vistula is the longest waterway in Poland. It is about 1000 km long, and flows through natural greenery, islands, and the habitats of birds and other animals. The Vistula is a delight for those who love nature and wild rivers. Even in Warsaw, the Vistula is a wild river with limited regulation (only a few dikes have been built) and limited apparent 'use'. The water levels fluctuate by more than 6 meters between the extreme low and high zones. The river has several sandy beaches, which are used intensively during the summer days. See more information about the route at <u>swat.tamu.edu/conferences/2017</u>.

20:30

DINNER GALA Kryształowa (Crystal) Hall

9:00 – 10:30	SESSION G1: SEDIMENT Water Centre / Basemer	, NUTRIENTS, AND CARBON Moderator: Peter Allen, ht Hall Baylor University, USA	
9:00 – 9:20	Damian Badora	The influence of the DEM resolution on the LS factor and SWAT estimates of soil erosion on the example of upland loess watershed in Poland.	
9:20 – 9:40	Bano Mehdi	Improved understanding of the impacts of hydroclimate, land use and agricultural management practices on nitrate concentration dynamics using SWAT	
9:40 - 10:00	Valeriy Osypov	SWAT Model Application for Simulating Nutrient Emission from Small Agricultural Catchment in the Desna River Basin (Ukraine)	
9:00 - 10:30	SESSION G2: CLIMATE C Water Centre / Assembl		
9:00 – 9:20	Farzad Emami	Modeling the Projected Impact of Climate Change on Boukan Dam Inflow and Water Availability in the Zarrine River Basin of Iran	
9:20 – 9:40	Majid Fereidoon	An integrated MODSIM- PSO Model for optimal Multi- Crop Planning in the agricultural Areas of the Karkheh River Basin, Iran, under the Impacts of Climate Change	
9:40 - 10:00	Saeed Morid	Assessing the impact of climate variability and human activities on the drawdown of Lake Urmia (Iran) using SWAT-LU	

9:00 - 10:30	SESSION G3: ENVIRONN Water Centre / Assembl		Moderator: Michael Strauch, Helmholtz Centre, Germany
9:00 – 9:20	Anna Maria De Girolamo	Modelling streamflow to	set an environmental flow
9:20 – 9:40	Chunggil Jung	Evaluation of the Ground Drying Stream by Modifyi Equation	water Use Impact on the ng SWAT Groundwater Balance
9:40 - 10:00	Michael Strauch	Towards multifunctional agricultural landscapes in Europe: SWAT as a key to asses synergies and trade-offs between ecosystem services and biodiversity	
10:00 - 10:20	Michel Rahbeh	Evaluation of Soil Water Assessment Tool for the simulation of preferential contaminant transport in cultivated lands near Zarqa river	
9:00 - 10:30	SESSION G4: HYDROLOG Water Centre / Exhibitio		Moderator: José Miguel Sánchez-Pérez, CNRS- ECOLAB, France
9:00 - 9:20	Leonardo Domingues	Field Observations and Model Simulations of an Extreme Drought Event in the Southeast Brazil	
9:20 - 9:40	Asim Jahangir Khan	Comparison of Interpolation Methods for Precipitation Data in a mountainous Region (Upper Indus Basin)	
9:40 - 10:00	Abelardo Montenegro	Hydrological analysis for representative small catchments in Caatinga and Cerrado biomes using SWAT model	
10:00 - 10:20	Thanapon Piman	Impacts of climate variabl development on river flov Luang Watershed, Thailar	ws and water balance of Huai

10:30 – 10:50 **COFFEE BREAK** Water Centre / Main Floor

10:50 – 12:20	SESSION H1: LARGE SCALE APPLICATIONS Water Centre / Assembly Hall 1 / Upstairs		Moderator: Prasad Daggupati, University of Guelph, Canada
10:50 - 11:10	Anthony Lehmann	Sharing input and outputs data applications of SWAT with O	-
11:10 – 11:30	José A. F. Monteiro	Overcoming challenges of la with R: Modelling of the Am	rge-scale SWAT applications azon basin
11:30 – 11:50	Kausila Timsina	Assessment of Changes in H Teesta River by Teesta –V Hy Sikkim India	ydrologic Regime of the ydroelectric Power Project in
11:50 – 12:10	Celray James Chawanda	Automated implementation	of irrigation in SWAT
10:50 – 12:20	SESSION H2: SENSITIVITY UNCERTAINTY Water Centre / Assembly		Moderator: Saeed Morid, Tarbiat Modares University, Iran
10:50 - 11:10	Daniel Hawtree	Using Multi-Criterea Calibration Methods to Estimate Nitrate Pollution in a Large Basin with Limited Data	
11:10 - 11:30	Gerald Corzo Pérez	Hydrological modeling of a t study case of Cauto River, Cu	•
11:30 – 11:50	Guoyuan Wei	A NSGA-II based calibration other universal models	platform for the SWAT and

10:50 – 12:20	SESSION H3: BMPs Water Centre / Exhibition	on Hall / Main Floor	Moderator: Natalia Uribe, IHE Delft, The Netherlands
10:50 – 11:10	Natalia Uribe		to assess the effect of Potato on nutrients concentration and uquene watershed.
11:10 - 11:30	Lei Chen	A new tool for optimizing integrating SWAT and NSG	best management practices by 6A
11:30 – 11:50	Arthur Hrast Essenfelder	Evaluating Impacts of Alternative Adaptation Strategies on the Dynamics of Human-Water Systems: A Methodological Framework for an Integrated Modular SWAT and Multi-Attribute Revealed Preference Model	
11:50 – 12:10	Slim Mtibaa	Technical-economic analys practices for appropriate of of Joumine river basin, Tur	control of sediment yield: Case
12:20 – 13:40	LUNCH Limba Dormitory		
13:40 – 15:10	SESSION I1: CLIMATE C Water Centre / Assemb		Moderator: Karim Abbaspour, EAWAG, Switzerland
13:40 - 14:00	Karim Abbaspour	Introducing Climate Change Toolkit (CCT): a modular toolkit for climate change and extreme weather analysis	
14:00 - 14:20	Stephan Kpoti Gunn	Assessing the impacts of climate change on discharge and nutrient losses from a karstic agricultural sub-basin in the Upper Chesapeake Bay watershed	
14:20 - 14:40	Olga Nasonova		streamflow in ISI-MIP large- ons and their uncertainties
14:40 – 15:00	Zohreh Poorkarimi	Using real runoff instead of impact of climate change of order to consider human a	

13:40 – 15:10	SESSION I2: HYDROLOGY Water Centre / Exhibitio		Moderator: Suzana Montenegro, UFPE, Brazil
13:40 - 14:00	Joanna Suliga	•	AT and WETSPA hydrological lelling at the catchment scale
14:00 - 14:20	Suzana Montenegro	Comparative hydrology usin Pernambuco State watershe SUPer system development	eds, Northeast of Brazil for
14:20 – 14:40	Gokhan Cuceloglu	Assessing the Influence of C Quantification of Water Bala Sea Catchment: Case Study Turkey	ance Components in Black
14:40 – 15:00	Ann van Griensven	A methodology for calculati and Water Productivity base Case Study: Mara Catchmer	ed on SWAT-T simulations.
13:40 - 15:10	SESSION I3: ENVIRONMI Water Centre / Assembly		Moderator: Katrin Bieger, Texas A&M AgriLife Research, USA
13:40 – 14:00	Nina Zarrineh	Impact analysis of land shar strategies on catchment-sca using SWAT	
14:00 - 14:20	Rafael Magris	Modelling vulnerability of co based mining pollution: a ca	-
14:20 - 14:40	Darae Kim	Parameter Calibration of SW Quality Focusing on Long-te	
14:40 - 15:00	Ji Wan Lee	Discussion of a Decade Accu Baseline for Future Climate Watershed Hydrology and V	Change Impact on
15:10 – 15:30	COFFEE BREAK Water Centre / Main Flo	or	
15:30 – 17:00	CLOSING DISCUSSIONS Water Centre / Assembly	y Hall 1 / Upstairs	

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