INTERNATIONAL SOIL
AND WATER ASSESSMENT
TOOL CONFERENCE

SWAT 2019





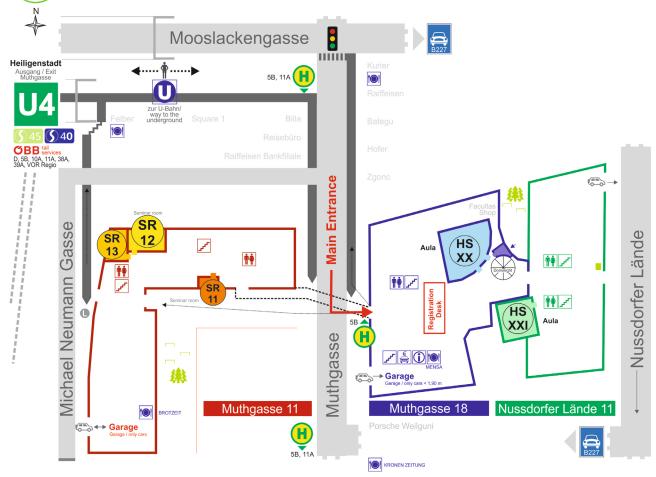
The Soil and Water Assessment Tool (SWAT) is a public domain model jointly developed by USDA Agricultural Research Service (USDA-ARS) and Texas A&M AgriLife Research, part of The Texas A&M University System.

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.

swat.tamu.edu | facebook.com/swatmodel | twitter.com/swat_model

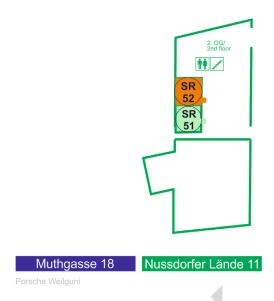


Muthgasse 11 and 18 - GROUNDFLOOR





Muthgasse 18 - SECOND FLOOR



Conference Overview

Wednesday, July 17	
Participant Check-in and Registration	Aula
Opening Ceremony	HS XX
Coffee Break	Aula
A1 SWAT+	HS XX
A2 Sensitivity Calibration and Uncertainty	SR 13
A3 Hydrology	SR 12
A4 Sediment, Nutrients, and Carbon	HS XXI
Group Photo	Aula
Lunch	Aula
B1 Hydrology	HS XXI
B2 Model Development	SR 12
B3 Large Scale Applications	HS XX
B4 Climate Change Applications	SR 13
Coffee Break	Aula
C1 Posters	HS XX, Aula
	Participant Check-in and Registration Opening Ceremony Coffee Break A1 SWAT+ A2 Sensitivity Calibration and Uncertainty A3 Hydrology A4 Sediment, Nutrients, and Carbon Group Photo Lunch B1 Hydrology B2 Model Development B3 Large Scale Applications B4 Climate Change Applications Coffee Break

Thursday, July 18	
D1 Model Development	SR 12
D2 Hydrology	HS XXI
D3 Environmental Applications	HS XX
D4 Database and GIS Application and Development	SR 13
Coffee Break	Aula
E1 SWAT+	HS XXI
E2 Climate Change Applications	SR 12
E3 Environmental Applications	SR 13
Lunch	Aula
F1 SWAT+ Demo	HS XX
Stephansdom Tour	
Dinner Gala	
	D1 Model Development D2 Hydrology D3 Environmental Applications D4 Database and GIS Application and Development Coffee Break E1 SWAT+ E2 Climate Change Applications E3 Environmental Applications Lunch F1 SWAT+ Demo Stephansdom Tour

Friday, July 19			
9:00 – 10:30	G1	Hydrology	HS XXI
	G2	Large Scale Applications	SR 12
10:30 – 11:00	Coffee	Break	Aula
11:00 – 12:30	H1	Environmental Applications	HS XXI
	H2	Hydrology	SR 12
	Н3	Soil and Water Conservation Management	SR 13
12:30 – 14:00	Lunch		Aula
14:00 – 15:30	l1	Climate Change Applications	SR 12
	12	Hydrology	HS XXI
	13	Sediment, Nutrients, and Carbon	SR 13
15:30 – 16:30	Closing	g Session	HS XXI

8:00 – 9:00	PARTICIPANT CHECK-IN AN Aula	ND REGISTRATION
9:00 – 10:30	OPENING CEREMONY HS XX	
9:00 – 9:15	Günter Langergraber, Head Environment, BOKU, Austri Welcome Address	d of Department of Water, Atmosphere and ia
9:15 – 10:00	Adam Kovacs, ICPDR, Aust Quo vadis, Danubius? - Cha shared river basin	ria allenges of water quality management in a
10:00 – 10:30	Jeff Arnold, USDA-ARS, USA Model Development	A
10:30 – 11:00	COFFEE BREAK Aula	
11:00 – 12:30	SESSION A1: SWAT+ HS XX	Moderator: Jeff Arnold, USDA-ARS, USA
11:00 – 11:20	Katrin Bieger	Overview of SWAT+ options for simulating groundwater processes
11:20 – 11:40	David Bosch	SWAT+ Estimates of Peak Flows for a Coastal Plain Watershed
11:40 – 12:00	Celray James Chawanda	Africa SWAT+ Model for Climate Change and Land Use Change Studies
12:00 – 12:20	Albert Nkwasa	How can we represent seasonal land use dynamics in SWAT and SWAT+ models for African cultivated catchments?

11:00 – 12:30	SESSION A2: SENSITIVITY C UNCERTAINTY SR 13	Moderator: Karsten Schulz, BOKU, Austria
11:00 – 11:20	Seonggyu Park	IPEAT+: FORTRAN-based Automatic Calibration Tool Coupled with SWAT+
11:20 – 11:40	Seonggyu Park	Framework for quantifying uncertainty, sensitivity, and estimating parameters for SWAT+ with MODFLOW routines
11:40 – 12:00	Deepak Khare	Sensitivity Analysis of Runoff Using SWAT: a Case Study of Large Mountainous Watershed in North India
12:00 – 12:20	Bhumika Uniyal	Regional Irrigation Water Demand: Addressing Uncertainties for Better Prediction
11:00 – 12:30	SESSION A3: HYDROLOGY SR 12	Moderator: José María Bodoque, University of Castilla-La Mancha, Spain
11:00 – 12:30 11:00 – 11:20		Bodoque, University of
	SR 12	Bodoque, University of Castilla-La Mancha, Spain Calibration and validation in hydrologically altered basins: A case study involving the SWAT and
11:00 – 11:20	SR 12 José María Bodoque	Bodoque, University of Castilla-La Mancha, Spain Calibration and validation in hydrologically altered basins: A case study involving the SWAT and AQUATOOL models in the Iberian Peninsula Hydrological Simulation of a Small Tropical

11:00 – 12:30	SESSION A4: SEDIMENT, NUTRIENTS, AND CARBON HS XXI		Moderator: Matjaž Glavan, University of Ljubljana, Slovenia
11:00 – 11:20	Jaehak Jeong	Time-scale effects upon investigating urban water	
11:20 – 11:40	Paulina Woźniak	•	iment loads under climate the Raba River catchment,
11:40 – 12:00	Paweł Marcinkowski	The effect of sampling for water quality modelling monitoring data in a bor	•
12:00 – 12:20	Hanibal Lemma	, -	pots in Lake Tana Basin from tion: Opportunity for land

12:30 - 12:45 **GROUP PHOTO**

Aula

12:45 - 14:00 **LUNCH**

Aula

14:00 – 15:30	SESSION B1: HYDROLOGY HS XXI	Moderator: Mamaru Ayalew Moges, Bahir Dar University, Ethiopia
14:00 – 14:20	George Akoko	Evaluating Irrigation Water Resources Availability and Climate Change Impacts on Scheme Management – Case Study of Water Balance Simulation of Mwea Irrigation Scheme, Kenya
14:20 – 14:40	Tracy Baker	Using SWAT to asses potential hydropower impacts downstream in a data scarce region: Gabon case study
14:40 – 15:00	Jeehun Chung	SWAT Hydrological Simulation of Gongdo Agricultural Watershed in South Korea Using SM2RAIN Rainfall Derived from AMSR-E Satellite Images
15:00 – 15:20	Jin Uk Kim	SWAT Agricultural Reservoir Operation Modeling for Release of Paddy Irrigation Water and Environmental Flow in Gongdo Rural Watershed of South Korea
14:00 – 15:30	SESSION B2: Model Develo SR 12	Moderator: Jaehak Jeong, Texas A&M AgriLife Research, USA
14:00 – 14:20	Ryan Bailey	SWAT-MODFLOW: Recent Applications and an Introduction to Version 3
14:20 – 14:40	Ryan Bailey	Enhancing SWAT+ groundwater flow simulation using MODFLOW routines
14:40 – 15:00	R. Manjula	Review on SWAT Integrated Models and Their Applications in Surface and Subsurface Flows
15:00 – 15:20	Carolyne Andrade	Climate Change Impacts on Hydrological Processes in Representative Basin of Brazilian Semiarid

14:00 – 15:30	SESSION B3: Large Scale HS XX	Applications	Moderator: Michael White, USDA-ARS, USA
14:00 – 14:20	Michael White	Development of a Nat US: Progress and Chall	ional SWAT+ Model for the lenges
14:20 – 14:40	Dennis Trolle	•	e wAter Prognosis" (ASAP): a tform for operational SWAT
14:40 – 15:00	Natalja Čerkasova	_	•
15:00 – 15:20	Cibin Raj	Computationally effici complex large-scale S\	ent calibration strategies for WAT applications
14:00 – 15:30	SESSION B4: Climate Ch SR 13	ange Applications	Moderator: Mikołaj Piniewski, Warsaw University of Life Sciences, Poland
14:00 – 14:20	Ann van Griensven	Climate change impac across Africa	ts on crop water productivity
14:20 – 14:40	Howard Van Meer	•	enarios and effects on water on in Río Dulce irrigation Estero, Argentina
14:40 – 15:00	Sehoon Kim		Agricultural Water Supply ne Climate Condition of Geum DSIM-DSS Model
15:00 – 15:20	So Young Woo	Strategy of Stream Flo	ate Change Adaptation ow and Water Quality atershed Receiving Water from
15:30 – 16:00	COFFEE BREAK Aula		

16:00 – 19:00 **SESSION C1: POSTERS**

HS XX, Aula

Finger food and drinks served at 17:00

вм	Ps				
1	Miha Curk	Water protection in a vulnerable agricultural area - the soil type based approach			
2	Raju Gurung	Enhancement of degraded watershed through Restoration (plantation) and its effects on steam-flow in West Seti Watershed in Nepal			
3	Adrián López- Ballesteros	Modeling the impacts of best management practices on water quality of El Beal wadi (SE Spain)			
4	Hui Xie	Probabilistic approach for uncertainty-based optimization of best management practices under multiple types of rainfall-runoff events			
5	Seyedeh Nayyer Mirnasl Bonab	Investigating the Impact of Crop Rotation at Different Levels of Implementation and Spatial Distribution on the Total Phosphorus Loading Using the SWAT Modeling Tool			
Clin	Climate Change Applications				
6	Dereje Birhanu	Combined impacts of future climate and land use changes on hydrological process of Upper Awash River Basin, Central Ethiopia			
_					
7	Yi-Hsuan Chen	The hydrological characteristics of Hehuan Mountain watershed and impact assessment of climate variation			
8	Yi-Hsuan Chen Chul-gyum Kim	· · · · · · · · · · · · · · · · · · ·			
		assessment of climate variation Evaluation of future climate change impact on the inflow of Chungju Dam during			
8	Chul-gyum Kim Javier Senent	assessment of climate variation Evaluation of future climate change impact on the inflow of Chungju Dam during flood season using multiple GCMs and SWAT model Impact of climate change on water resources in the Guajoyo River Basin (El			

Data	abase and GIS App	lication and Development	
12	Eugenio Molina- Navarro	SWAT as an educational resource at the University of Alcalá: Expanding the SWAT community in Spain by teaching	
13	GeonWoo Park	Evaluation of Baseflow and Lateralflow using measured Slope and Slope length at Doam Dam Watershed	
Env	ironmental Applica	ations	
14	Natalja Čerkasova	Development of framework for the application of coastal, riverine, environmental and socio-economic modeling tools to predict the values of indicators for Ecosystem Services	
15	Jan Gregar	The Proposal of Management of Bathing Water Reservoir for Elimination of Eutrophication	
16	Stefan Julich	Simulation of the water supply of Short Rotation Coppices on sandy fields	
17	Chong Li	Comparing SWAT and InVEST models on water conservation calculation	
18	Ruimin Liu	Dynamic water environmental capacity calculation based on SWAT model under the changing environment	
19	Yifan Wu	Impact of Land Use Change on streamflow by linking the CA-Markov and SWAT models	
Hyd	lrology		
20	Dawd Ahmed	Effects of Land Use Land Cover Change on Stream Flow (Case of Wabe Watershed, Omo-Gibe Basin, Ethiopia)	
21	Carolyne Andrade	Modeling runoff and evapotranspiration responses to land use changes using SWAT model in the Mundaú watershed, Brazil	
22	José María Bodoque	Application of the SWAT model and remote sensing techniques to assess flooding in basins of the Pampas region	
23	Lei Chen	Evaluating spatial scaling effect of baseflow and baseflow nonpoint source pollution in a typical nested watershed	
24	Il-Moon Chung	A long-term water balance analysis of urban watershed in Korea	
25	Amine Larabi	Improved simulation of groundwater-surface water interactions between oasis and catchment systems in Morocco using MODFLOW and SWAT+	
26	Jeong Eun Lee	Estimation of hourly peak flows at multi-sites using SWAT in the Chungju Dam watershed, Korea	
27	Francis Kilundu Musyoka	Evaluation of the SWAT model performance for a small agricultural catchment in Austria	

28	Julio Perez- Sanchez	Using SWAT and the chloride mass balance method to improve the modelization of basins under significant groundwater exchanges	
29	Carlos Zuleta Salmon	An integrated GIS and SWAT model approach to assess past, present and future land use changes and related water management impacts in the upper Amazon region of Ecuador	
30	Jeongwoo Lee	Combined use of SWAT and ANN models for hourly peak flow estimation in Chungju Dam watershed, South Korea	
31	Hyungjin Shin	Analysis of agricultural drought through hydrological analysis of agricultural reservoir watershed	
32	Emily Su	Impact of headwater stream burial on downstream processes within Kemptville Creek subwatershed in Ontario, Canada	
33	Michał Jasik	Effect of reforestation after the decay of spruce stands on the hydrological conditions of the Leśnianka and Malinowski Stream catchments in the Silesian Beskid	
Larg	ge Scale Applicatio	ns	
34	Jörg Dietrich	Modelling a semi-arid catchment with a large number of horizontally connected reservoirs in Brazil	
35	Nina Noreika	Application of SWAT model to assess hydrological balance and mass transport within medium size catchments	
2.0			
36	Dongseok Yang	Analysis of Pollutants Load from Nationwide agricultural Fields Considering Future Climate and Seasonal Prediction Using Model APEX	
	Dongseok Yang del Development		
	-		
Мо	del Development	Future Climate and Seasonal Prediction Using Model APEX Design and development of a Python-based interface for processing massive data	
37 38	del Development Jungang Gao Cong Wang	Puture Climate and Seasonal Prediction Using Model APEX Design and development of a Python-based interface for processing massive data with the Load Estimator (LOADEST)	
37 38	del Development Jungang Gao Cong Wang	Puture Climate and Seasonal Prediction Using Model APEX Design and development of a Python-based interface for processing massive data with the Load Estimator (LOADEST) Simulation of nitrous oxide emissions in typical agricultural catchments in Austria	

Sediment, Nutrients, and Carbon

41 Matjaž Glavan Integrated water quality management model for rural cross-border river basin:

The case of Sotla/Sutla river

Sensitivity Calibration and Uncertainty

42 Yosuke Horie Parameter estimation in SWAT with ensemble Kalman filter considering

characteristics of ordinary and rainfall flow

9:00 – 10:30	SESSION D1: MODEL DEVE SR 12	Moderator: Cibin Raj, Purdue University, USA
9:00 – 9:20	Cibin Raj	Re-conceptualizing HRU threshold definition in the Soil and Water Assessment Tool
9:20 – 9:40	Andreas Bauwe	SWAT-P: A modified SWAT model to simulate dissolved reactive phosphorus in tile-drained landscapes
9:40 – 10:00	Ryan Bailey	APEX-MODFLOW: new integrated model to simulate water and nutrient transport at the watershed scale
10:00 – 10:20	Ryan Bailey	Assessing Salt Ion Fate and Transport in Arid Regions using SWAT-Salt
9:00 – 10:30	SESSION D2: HYDROLOGY HS XXI	Moderator: Christine Stumpp, BOKU, Austria
9:00 – 9:20	Eugenio Molina-Navarro	Estimating the hydrological impacts of droughts in California using SWAT: the Tijuana River Basin
9:20 – 9:40	Eugenio Molina-Navarro	SWAT-MODFLOW implementation at a highly drained agricultural catchment in Denmark
9:40 – 10:00	David Rivas-Tabares	Self-Organizing Maps of soil properties for improved hydrological modeling
10:00 – 10:20	Tibebe Tigabu	Modelling the flow dynamics of groundwater- surface water interactions of the Lake Tana Basin, Upper Blue Nile, Ethiopia.

9:00 – 10:30	SESSION D3: ENVIRONN HS XX	MENTAL APPLICATIONS	Moderator: Michael Strauch, Helmholtz Centre for Environmental Research - UFZ, Germany
9:00 – 9:20	Mikolaj Piniewski	recovery and reuse ma	nts and organic carbon ay affect their emissions to ework based on three Baltic
9:20 – 9:40	Michael Strauch	Land use optimization metaheuristics, and m	based on modeling, ulti-criteria decision analysis.
9:40 – 10:00	Anders Nielsen		ol (WET): a way to simulate and reservoirs from SWAT outputs
10:00 – 10:20	Paweł Wielgat	agricultural practices of	el in monitoring the impact of on the basin of Puck Bay in
		Poland- application W	aterPUCK.
9:00 – 10:30	SESSION D4: DATABASE AND DEVELOPMENT SR 13	<u>``</u>	Moderator: Balaji Narasimhan, IIT Madras, India
9:00 – 10:30 9:00 – 9:20	AND DEVELOPMENT	E AND GIS APPLICATION Development and test	Moderator: Balaji Narasimhan, IIT Madras,
	AND DEVELOPMENT SR 13	Development and test soil database for improprediction Using digital soil mapp	Moderator: Balaji Narasimhan, IIT Madras, India ing of high-resolution global
9:00 – 9:20	AND DEVELOPMENT SR 13 Balaji Narasimhan	Development and test soil database for improprediction Using digital soil mapp case study from small Republic)	Moderator: Balaji Narasimhan, IIT Madras, India sing of high-resolution global oved hydrologic model sing for SWAT soil input data, scale watershed (Czech

10:30 – 11:00 **COFFEE BREAK** Aula

11:00 – 12:30	SESSION E1: SWAT+ HS XXI	Moderator: Katrin Bieger, Texas A&M AgriLife Research, USA
11:00 – 11:20	Celray James Chawanda	IPEAT+ UI: An Automatic Calibration Tool with User Interface for SWAT+
11:20 – 11:40	Joanna O Keeffe	Utilizing SWAT+ for ecohydrological and climate change studies
11:40 – 12:00	Marta Księżniak	Influence of Wetland component in SWAT+ used for the Upper Biebrza catchment model
12:00 – 12:20	Kaoutar Badioui	Simulation of Dates Palm Trees in the Boudenib Oasis in Morocco using SWAT+ and Remote Sensing Data
11:00 – 12:30	SESSION E2: CLIMATE CHA SR 12	MOGE APPLICATIONS Moderator: Andreas Bauwe, University of Rostock, Germany
11:00 – 11:20	Lingfeng Zhou	A frequency-domain nonstationary multi-site rainfall generator for use in hydrological impact assessment
11:20 – 11:40	Richard Dallison	Impacts of climate change on water quantity and quality in the Dyfi Catchment, UK: Implications for drinking water supply
11:40 – 12:00	Nina Zarrineh	Climate and land use management changes on the
		provision of multiple ecosystem services in Western Switzerland – Are there risks of maladaptation?

11:00 – 12:30	SESSION E3: ENVIRONMENT SR 13	TAL APPLICATIONS	Moderator: Stefan Julich, TU Dresden, Germany
11:00 – 11:20	Dominika Kalinowska	Hydrological forecast in Poland	model of the Puck community
11:20 – 11:40	Yonggwan Lee		e Change Impact on Hydrology Geum Reiver Basin by Indexing
11:40 – 12:00	Cong Men		vy metals from nonpoint tershed under the rapid
12:00 – 12:20	Yaobin Meng	·	tal budget assessment at the upled SWAT-Heavy Metal
12:30 – 14:00	LUNCH Aula		
14:00 – 14:30	SESSION F1: SWAT+ DEMO HS XX		
15:30 – 17:30	STEPHANSDOM TOUR		
	Meet at the Stephansdom a	t 15:30	
	Wiener Stephansdom Stephansplatz 3 1010 Vienna		
19:00	DINNER GALA		
	By invitation of the Mayor o	of the City of Vienna	
	Wiener Rathauskeller		

Rathausplatz 1 1010 Vienna

9:00 – 10:30	SESSION G1: HYDROLOGY HS XXI	Moderator: Peter Allen, Baylor University, USA
9:00 – 9:20	Yongwon Kim	SWAT Watershed Modeling of Inter-Basin Water Transfer for Dealing with Water Dispute between Basins
9:20 – 9:40	Wenzhuo Wang	Is returning farmland to forest an effective measure across spatial scales?
9:40 – 10:00	Jiwan Lee	Evaluation of stream flow and water quality behavior by weir operation in Nakdong river basin using SWAT
10:00 – 10:20	Ismail Adal Guiamel	Watersheds Modeling of Mindanao River Basin in the Philippines using the Soil and Water Assessment Tool (SWAT) for Water Resources Management
9:00 – 10:30	SESSION G2: LARGE SCALE SR 12	APPLICATIONS Moderator: Dennis Trolle, Aarhus University, Denmark
9:00 – 9:20	Odile Leccia-Phelpin	Assessing SWAT model performance using gridded SAFRAN/ CFSR and conventional weather station datasets at different hydro-meteorological spatial and temporal resolutions - A case study on the 10,000 km ² Charente river basin S-W France
9:20 – 9:40	Anna Malago'	Water quality modelling at continental scale using the SWAT model
9:40 – 10:00	Yonggui Wang	Modelling the Spatiotemporal Patterns of Hydrology Processes and Non-point Source Pollution with SWAT in the Three Gorges Reservoir Area, China
10:00 – 10:20	Insaf Mekki	SWAT to model the the ecosystem services in the small agricultural Lebna watershed (Cap Bon, Tunisia).
10:30 – 11:00	COFFEE BREAK Aula	

11:00 – 12:30	SESSION H1: ENVIRONMEN HS XXI	ITAL APPLICATIONS	Moderator: Nicola Fohrer, Christian-Albrechts- University Kiel, Germany
11:00 – 11:20	Hamed Vagheei	Application of SWAT N Assessment of the Clar	Model in Eco-hydrological riano River
11:20 – 11:40	Howard Van Meer	rainfed sugarcane und	d blue water impacts on er different management atchment, northern Argentina
11:40 – 12:00	Qingrui Wang	The effects of land use pollution simulation us	change on non-point source sing SWAT model
12:00 – 12:20	Yang Xu		pagation from meteorological al and agricultural drought using SWAT model
11:00 – 12:30	SESSION H2: HYDROLOGY SR 12		Moderator: Ryan Bailey, Colorado State University, USA
11:00 – 11:20	Wonjin Jang	· · ·	cialized Multi-objective PSO ithm in Haean Watershed of
11:20 – 11:40	Zsolt Jolankai		ydraulic data using the SWAT Kapos catchments, Hungary
11:40 – 12:00	İsmail Bilal Peker	Application of SWAT in Turkey using remote so	n a mountainous region in ensing data
12:00 – 12:20	Davy Sao	Assessment of Stream River Basin of Cambod	Flow Variability in Pursat ia using SWAT Model

11:00 – 12:30	SESSION H3: SOIL AND WA MANAGEMENT SR 13	TER CONSERVATION	Moderator: Bano Mehdi, BOKU, Austria
11:00 – 11:20	Damiano Baldan	water retention measu	l impact of natural small ires on in-stream siltation risk with an integrated modeling
11:20 – 11:40	Jiali Qiu	Evaluating the perform practices under climate Miyun Reservoir Water	e change scenarios in the
11:40 – 12:00	Tadesse A. Abitew	A climate-based progn for tropics and subtrop	ostic LAI modeling in SWAT+ pical region
12:30 – 14:00	LUNCH Aula		
14:00 – 15:30	SESSION I1: CLIMATE CHAN	NGE APPLICATIONS	Moderator: Javier Senent Aparicio, UCAM, Spain
14:00 – 14:20	Rana Ammar Aslam		act of climate change on in Lahore, Pakistan using
14:20 – 14:40	Rimuka Bloodless Dzwairo	_	d Water Management Model ds of BIS Countries Under rios
14:40 – 15:00	Nariman Mahmoodi	Modeling the impact o streamflow of an Irania	_
15:00 – 15:20	Chanchai Petpongpan	Climate Change impact Groundwater resource	

14:00 – 15:30	SESSION 12: CLIMATE CHAI	NGE APPLICATIONS	Moderator: Tracy Baker, The Nature Conservancy, USA
14:00 – 14:20	Abolanle Elizabeth Odusanya	Evaluating the efficiency evapotranspiration data constraining hydrologica streamflow simulation a Africa	from remote sensing in
14:20 – 14:40	Mamaru Ayalew Moges	Satellite Based Climate I assessment in scale of ra SWAT, Upper Blue Nile E	ange of watersheds by Using
14:40 – 15:00	Fereshteh Kordrostami	A multi-criteria framewo adaptive water resource scarce semi-arid regions	_
15:00 – 15:20	Giovanni Francesco Ricci	Soil Erosion Models at R Scale Comparing SWAT, RUSLE2015	egional and Watershed AnnAGNPS, PESERA, and
14:00 – 15:30	SESSION 13: CLIMATE CHAI SR 13	NGE APPLICATIONS	Moderator: Andreas Klik, BOKU, Austria
14:00 – 15:30 14:00 – 14:20		Assessment of sediment	BOKU, Austria inflow to a reservoir using anging Landuse conditions: A
	SR 13	Assessment of sediment the SWAT model for Cha case study for Vaigai Res	BOKU, Austria inflow to a reservoir using anging Landuse conditions: A servoir, Tamilnadu, India from a typical dairy farming
14:00 – 14:20	SR 13 Saravanan Subbarayan	Assessment of sediment the SWAT model for Chacase study for Vaigai Resease study for Vaigai Research Stud	BOKU, Austria I inflow to a reservoir using anging Landuse conditions: A servoir, Tamilnadu, India from a typical dairy farming and using SWAT and Sediment Transport in rough the SWAT model. a powatershed, Wonogiri
14:00 – 14:20 14:20 – 14:40	SR 13 Saravanan Subbarayan Linh Hoang	Assessment of sediment the SWAT model for Chacase study for Vaigai Researchment in New Zeala Modelling of Discharge a Terrace Paddy Fields Thr Case study: Keduang sub Regency, Central Java, In	BOKU, Austria I inflow to a reservoir using anging Landuse conditions: A servoir, Tamilnadu, India from a typical dairy farming and using SWAT and Sediment Transport in rough the SWAT model. a powatershed, Wonogiri
14:00 - 14:20 14:20 - 14:40 14:40 - 15:00	SR 13 Saravanan Subbarayan Linh Hoang Andrianto Ansari	Assessment of sediment the SWAT model for Chacase study for Vaigai Researchment in New Zeala Modelling of Discharge a Terrace Paddy Fields Thr Case study: Keduang sub Regency, Central Java, In	BOKU, Austria I inflow to a reservoir using anging Landuse conditions: A servoir, Tamilnadu, India from a typical dairy farming and using SWAT and Sediment Transport in rough the SWAT model. a powatershed, Wonogiri adonesia.

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