



INDIAN INSTITUTE OF TECHNOLOGY DELHI



2012 International SWAT Conference

18-20 July, 2012

India Habitat Centre, Lodhi Road, New Delhi, India

Conference Agenda



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

SWAT is a river basin-scale model to simulate the quality and quantity of surface and ground water and predict the environmental impact of land management practices on different soil patterns and land use patterns.

Agenda for the Event

Wednesday, July 18, 2012

08:30-09:30 a.m. Participant check-in and Registration
Jacaranda Foyer

09:30 - 10:50 a.m. Opening Ceremony
Jacaranda Hall

Moderator: Allan C Jones

Texas AgriLife

09:30 -09:35 a.m.	Welcome Address	Dr. A. K. Gosain Indian Institute of Technology, Delhi
09:35-9:50 a.m.	Keynote Speech 1	Dr. Jeff Arnold U.S. Dept. of Agriculture-Agricultural Research Service
09:50-10:00 a.m.	Keynote Speech 2	Dr. T. Chatterjee Secretary, Ministry of Environment & Forests
10:00 - 10:10 a.m.	Keynote Speech 3	Dr. Shailesh Nayak Secretary, Ministry of Earth Sciences
10:10-10:20 a.m.	Inaugural Address 4	Shri. P. J. Joseph Hon'ble Minister for Water Resources, Govt. of Kerala
10:20- 10:30 a.m.	Keynote Speech 5	Dr. R. Srinivasan Texas A&M University System
10:30-10:45 a.m.	Presentation of Mementos	
10:45- 10:50 a.m.	Vote of Thanks	Dr. R. Khosa Indian Institute of Technology, Delhi
10:50-11:10 a.m.	Coffee Break	
11:10 - 11:30 a.m.	Group Photo	
12:00 - 1:00p.m.	Lunch Jacaranda Foyer	

1:00 - 2:30 p.m.	Session A1: Hydrology - I Session A2: Environmental Applications - I Session A3: Climate Change Applications - I Session A4: SWAT Applications and Development in India - I	Jacaranda I Magnolia Casuarina Jacaranda II
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Session A1 – Hydrology – I

Venue: Jacaranda I

Chairman: Daniel Moriasi

Rapporteur: Jayshri Patel

1:00 - 1:20 p.m.	Gopal Krishan & Saroj*	Impact of Recharge Sources on Isotopic Composition and Microbiological Quality of Groundwater-A Case Study from Punjab, India
1:20 - 1:40 p.m.	Arun Babu E	Application of SWAT Model to an Agricultural Watershed in Tamil Nadu, India
1:40 - 2:00 p.m.	Celine George	Simulation of Streamflow in a Humid Tropical River Using SWAT
2:00 - 2:20 p.m.	B.S. Polisgowdar	Hydrological Modelling of Small Watersheds of South Ponnaiyar Basin in the Soil and Water Assessment Tool (SWAT)
2:20 - 2:30 p.m.	Discussion & wrap Up	

Session A2 – Environmental Applications – I

Venue: Magnolia

Chairman: Mike White

Rapporteur: Atul Jain

1:00 - 1:20 p.m.	M. Someshwar Rao	Assessment of Groundwater Resources and Quality in Bist Doab region, Punjab, India
1:20 - 1:40 p.m.	János Tamás	Precision Orchard Management System and Erosion Control
1:40 - 2:00 p.m.	Aabha Sargaonkar	NutriL-GIS: A Stand-alone Modelling Tool for Non-point Source Pollution Assessment
2:00 - 2:20 p.m.		
2:20 - 2:30 p.m.	Discussion & wrap Up	

Session A3 – Climate Change Applications – I

Venue: Casuarina

Chairman: Sandhya Rao

Rapporteur: Raktim Haldar

1:00 - 1:20 p.m.	Dipaka Ranjan Sena	Modeling Climate Change Impacts on Hydrology of a Small RVP Watershed of Southern India
1:20 - 1:40 p.m.	Dao Nguyen Khoi	Evaluating the Change of Hydrological Processes and Sediment Yield Considering the Effect of Climate Change
1:40 - 2:00 p.m.	B. D. Kulkarni	Hydrological Response to Climate Change in the Krishna Basin
2:00 - 2:20 p.m.	Amardeep Singh	GIS Based Hydrological Modelling for Climate Change Impact Assessment
2:20 - 2:30 p.m.	Discussion & wrap Up	

Session A4 – SWAT Applications and Development in India – I

Venue: Jacaranda II

Chairman: S. K .Jain

Rapporteur: Rajesh Rai

1:00 - 1:20 p.m.	M. P. Tripathi	Management Scenario for the Critical Sub-watersheds of Small Agricultural Watershed Using SWAT model and GIS Technique
1:20 - 1:40 p.m.		
1:40 - 2:00 p.m.	Kapil K Narula	Modelling Streamflows for Estimating Hydrological PLF of a Small Hydropower Scheme in an Ungauged Mountainous Watershed in Western Ghats in India Using SWAT
2:00 - 2:20 p.m.	Jatin Anand	Hydrologic Modelling for the Wardha Basin
2:20 - 2:30 p.m.	Discussion & wrap Up	

2:30 - 2:50 p.m.

Coffee Break

2:50 - 4:20 p.m.			Session B1: Hydrology - II Session B2: Large Scale Applications - I Session B3: Database and GIS Application & Development - I Session B4: Non-Point Source Pollution	Jacaranda I Magnolia Casuarina Jacaranda II
Session B1 - Hydrology - II Venue: Jacaranda I			Chairman: M. Perumal Rapporteur: Bhopal Singh	
2:50 - 3:10 p.m.	Subashisa Dutta	Analysis of the Impact of Water Conservation Measures on the Hydrological Response of a Medium-sized Watershed		
3:10 - 3:30 p.m.	Kaviya K	Hydrological Cycle Simulation of Kodavanar River (Athur block) Watershed Using Soil and Water Assessment Tool (SWAT)		
3:30 - 3:50 p.m.	Sandra Mongelos	"Stream flow Modeling in the Nacunday River Basin (Paraguay, South America) Using SWAT model"		
3:50 - 4:10 p.m.	Sanjeet Kumar	Estimating Catchment Sediment Yield, Reservoir Sedimentation and Reservoir Effective Life Using SWAT Model		
4:10 - 4:20 p.m.	Discussion & wrap Up			
Session B2: Large Scale Applications - I Venue: Magnolia			Chairman: Philip Gassman Rapporteur: Nale Jyoti	
2:50 - 3:10 p.m.	Philip W. Gassman	Worldwide Use of SWAT: 2012 Update		
3:10 - 3:30 p.m.	Pushpa Tuppad	Water Footprint Analysis of Biofuel Feedstock Using SWAT model		
3:30 - 3:50 p.m.				
3:50 - 4:10 p.m.	Geeta S. Joshi	Impact of Climate Change on Catchment Hydrology and Rainfall- runoff Correlations for Karajan Reservoir Basin, Gujarat, India		
4:10 - 4:20 p.m.	Discussion & Wrap Up			

Session B3: Database and GIS Application & Development – I

Venue: Casuarina

Chairman: Dharmendra Saraswat

Rapporteur: Ravi Shankar

2:50 – 3:10 p.m.	Sudipta K Mishra	Development of an Intelligent Digital Watershed for Sustainable Agro Economy in the US Midwest
3:10 – 3:30 p.m.	Nagraj S. Patil	GIS Framework to Evaluate Impact of Climate Change on Water Resources
3:30 – 3:50 p.m.	Pierluigi Cau	Latest Advances of the BASHYT Framework: A Web, GIS oriented, Interface for SWAT
3:50 – 4:10 p.m.	D. N. Moriasi	Evaluation of Revised Subsurface Tile Drainage Algorithms in SWAT for a Cold Climate
4:10 – 4:20 p.m.	Discussion & wrap Up	

Session B4: Non-Point Source Pollution

Venue: Jacaranda II

Chairman: Jose Miguel Sanchez Perez

Rapporteur: Jayshri Patel

2:50 – 3:10 p.m.	Laurie Boithias	Assessment of Pesticide Application Date Shifts on Surface Water Contamination during Floods Using the SWAT Model in the Save Catchment (South-Western France)
3:10 – 3:30 p.m.	Kapil Kumar Narula	Modeling Flow and Non-Point Contaminant Fate and Transport at a Catchment Scale in India
3:30 – 3:50 p.m.	David Brito & Pedro Chambel Leitão*	Management of the Trophic Status in Portuguese Reservoirs
3:50 – 4:10 p.m.	Laurie Boithias	Improving Modelling of Dissolved and Particulate Pesticides Transport in Rivers Using the SWAT Model in an Agricultural Catchment.
4:10 – 4:20 p.m.	Discussion & wrap Up	

4:20p.m. - 5:30 p.m.			Session C1: Climate Change Applications - II Session C2: Irrigation Water Management- I Session C3: Sensitivity ,Calibration and Uncertainty - I Session C4: Hydrology - III	Jacaranda I Magnolia Casuarina Jacaranda II
Session C1: Climate Change Applications - II Venue: Jacaranda I			Chairman: A.K. Gosain Rapporteur: B.C. Vishwakarma	
4:20 - 4:40 p.m.	Sandhya Rao	Use of SWAT for Climate Change Impact and Vulnerability Assessment at District Level		
4:40 - 5:00 p.m.	Debjani Deb	Impact of Climate and Landuse Change on the Hydrology and Water Quality of Major River Basins in the US		
5:00 - 5:20 p.m.	K. Shimola	Hydrological Modelling of a Semi Arid Basin Under Climate Change Scenarios		
5:20 - 5:30 p.m.	Ankit Chakravarti	Experimental Investigation of Rainfall Runoff Process		
	Discussion Et wrap Up			
Session C2: Irrigation Water Management - I Venue: Magnolia			Chairman: Shashi Mathur Rapporteur: Raghu Ram	
4:20 - 4:40 p.m.	S. D. Gorantiwar	Application of GIS-based SWAT Framework for Water Management of Irrigation Project Under Rotational Water Supply		
4:40-5:00pm.				
5:00 - 5:20 p.m.	Atsushi Sakaguchi	Applying SWAT to a Watershed Containing Paddy Fields		
5:20 - 5:30 p.m.	Discussion Et wrap Up			
Session C3: Sensitivity, Calibration and Uncertainty - I Casuarina			Chairman: Karim Abasspour Rapporteur: Anamika Nagpal	
4:20 - 4:40 p.m.				
4:40 - 5:00 p.m.	Maria Smietanka	Attempt to Application of SWAT Model in Lack of Exact Data Situation in Southern Poland.		
5:00 - 5:20 p.m.	Smarzynska Karolina	Calibration of SWAT Model for Small Agricultural Catchment in Poland - Problems and Results		
5:20 - 5:30 p.m.	Discussion Et wrap Up			

Session C4: Hydrology – III

Venue: Jacaranda II

Chairman: N. Balaji

Rapporteur: Himanshu Tyagi

4:20 – 4:40 p.m.	T.V. Lakshmi Kumar	Variability in Normalized Difference Vegetation Index (NDVI) in Relation to South West Monsoon, Western Ghats, India
4:40 – 5:00 p.m.	Dipak R. Samal	Rainfall Runoff Variability Over Semi-urban Catchment, Maharashtra, India
5:00 – 5:20p.m.	Raaj Ramsankaran	GIS Based Distributed Modelling of Soil Erosion and Sediment Yield for Isolated Storm Events- A Validation Study of DREAM
5:20 – 5:30 p.m.	Discussion & wrap Up	
5:45 – 7:15 p.m.	Heritage Walk of Lodi Gardens by Historian Beeba Sobti	
7:30- 8:30 p.m.	Welcome Dinner Venue: India Habitat Center	

Thursday, July 19, 2012 9:00 a.m. - 10:30 a.m.			Session D1: Hydrology - IV Session D2: Sediment, Nutrients & Carbon Session D3: Climate Change Applications - III Session D4: Ganga River Basin Management - I	Jacaranda I Magnolia Casuarina Jacaranda II
Session D1: Hydrology - IV Venue: Jacaranda I			Chairman: Pushpa Tuppad Rapporteur: Shailja Bahuguna	
9:00 - 9:20 a.m.	Sumit Sen	Watershed-level Comparison of Predictability and Sensitivity of Two Phosphorus Models		
9:20 - 9:40 a.m.	Raktim Haldar	Hydrodynamic Modeling of Vembanad Lake		
9:40 - 10:00 a.m.	V. Gowri	Estimation of Spatially Enhanced Wavelet Based Evapotranspiration Using Energy Balance Approach		
10:00 - 10:20 a.m.	Florian Wilken	Exploring Land Use Change with Combined Remote Sensing Techniques in the Upper Pennaiyar Catchment, South India		
10:20 - 10:30 a.m.	Discussion & wrap Up			
Session D2: Sediment, Nutrients & Carbon Venue: Magnolia			Chairman: Saeed Morid Rapporteur: Rakesh Kumar	
9:00 - 9:20 a.m.	Nina Omani & R Srinivasan*	Estimating Sediment and Nutrient loads of Texas Coastal Watersheds with SWAT		
9:20 - 9:40 a.m. Extent of	Philip W. Gassman	An Integrated Modeling System to Estimate Corn Belt Region Nutrient Load Impacts on the the Seasonal Gulf of Mexico Hypoxic Zone		
9:40 - 10:00 a.m.	C .Santhi	Estimating the Effects of Conservation Practice Scenarios on Water Quality in the Mississippi River Basin		
10:00 - 10:20 a.m.				
10:20 - 10:30 a.m.	Discussion & wrap Up			

Session D3: Climate Change Applications – III

Venue: Casuarina

Chairman: A.K. Kharya

Rapporteur: Shailza Sharma

9:00 – 9:20 a.m.	Kiran Jella	Assessment of Water Availability for Crop Production in a Changing Climate – Preliminary Results for Krishna Basin
9:20 – 9:40 a.m.	V. S .Manivasagam N Balaji*	Hydrological Modelling of Cauvery Basin
9:40 – 10:00 a.m.	Rim Ha	Assessment of Climate Change Impacts on Environmental Flow Release from a Multi-purpose Dam of South Korea Using SWAT Modeling
10:00 – 10:20 a.m.	Somsubhra Chattopadhyay	Watershed Modeling of Haw River Basin Using SWAT for Hydrology, Water Quality and Climate Change Study
10:20 – 10:30 a.m.	Discussion Et wrap Up	

Session D4: Ganga River Basin Management – I

Venue: Jacaranda II

Chairman: Deepak Singhal

Rapporteur: Maheshwaran R.

9:00 – 9:20 a.m.	Anamika Nagpal	A tool to Analyze and Present Large Volume of Model Outputs: Ganga Basin SWAT Modeling Case Study
9:20 – 9:40 a.m.	S. K. Jain Et GS Kaushika	Hydrological Modelling of the Upper Ganga catchment Using SWAT 2009
9:40 – 10:00 a.m.	Sujana Dhar	Agricultural Water demand Modeling using HEC HMS Soil Moisture Accounting for Ajay River Basin, India
10:00 – 10:20 a.m.	Balaji Narasimhan	Development of Soil and Landuse Data for Hydrological Modelling Purposes Using SWAT
10:20 – 10:30 a.m.	Discussion Et wrap Up	

10:30 a.m. – 10:50a.m. Coffee Break

10:50 a.m. - 12:00 p.m.		Session E1: SWAT Applications and Development in India - II Session E2: Irrigation Water Management- II Session E3: Environmental Applications - II Session E4: Hydrology - V	Jacaranda I Magnolia Casuarina Jacaranda II
Session E1: SWAT Applications and Development in India - II Venue: Jacaranda I		Chairman: Raj Kachroo Rapporteur: Jatin Anand	
10:50 - 11:10 a.m.	Raktim Haldar	Hydrologic Modeling of the Eastern Contributing Basins of Vemband Lake Using SWAT	
11:10 - 11:30 a.m.	Arbind K Verma	Evaluation of ArcSWAT Model for Streamflow Simulation	
11:30 - 11:50 a.m.	B C Kusre	Application of SWAT Model for Water Resources Management in Kopili River Basin in NE India	
11:50 - 12:00 p.m.	Discussion & wrap Up		
Session E2: Irrigation Water Management- II Venue: Magnolia		Chairman: Sabine Savage Rapporteur: Lohit Jain	
10:50 - 11:10 a.m.	Roberto de Jesús López Escudero & Jesus Uresti Gil	Development of a SWAT Based Soil Productivity Index	
11:10 - 11:30a.m.	C T Patel, N.L. Chauhan	Effect of Irrigation on Soil and Ground Water In The Ukai Right Bank Command of Surat District of Gujarat	
11:30 - 11:50 a.m.	So-Ra Ahn	Assessment of Agricultural Water Supply Capacity Using SWAT and MODSIM models	
11:50 - 12:00 p.m.	Discussion & wrap Up		
Session E3: Environmental Applications - II Venue: Casuarina		Chairman: Rema Devi Rapporteur: Sanjay Sharama	
10:50 - 11:10 a.m.	Hamid R. Solaymani	SWAT Application for Snow Bound KARKHEH River Basin of Iran	
11:10 - 11:30a.m.	Shashank Singh	Quantification of Urbanization Effect on Water Quality Using SWAT Model in Midwest US	
11:30 - 11:50 a.m.	Antonio Lo Porto	Water4Crops: Integrating Biotreated Wastewater Reuse and Valorization with Enhanced Water Use Efficiency in Agriculture to Support the Green Economy in EU and India	
11:50 - 12:00 p.m.	Discussion & wrap Up		

Session E4: Hydrology - V
Venue: Jacaranda II

Chairman: Kapil Narula
Rapporteur: Suman Kumari

10:50 - 11:10 a.m.		
11:10 - 11:30 a.m.	Nguyen Kim Loi	Assessing Climate Change Impacts and Adaptation in Central Vietnam Using SWAT and Community Approach: Case study in Vu Gia watershed, Quang Nam province
11:30 - 11:50 a.m.	S. Josephine Vanaja	Rainfall-runoff Modeling Using Doppler Weather Radar Ddata for Adyar Watershed, India
11:50 - 12:00 p.m.	Discussion & Wrap Up	

12:00 - 1:00 p.m. Lunch

1:00 p.m. - 2:30 p.m.	Session F1: Sensitivity Calibration and Uncertainty - II Session F2: Climate Change Applications - IV Session F3: Hydrology - VI Session F4: Large Scale Applications - II	Jacaranda I Magnolia Casuarina Jacaranda II
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Session F1: Sensitivity Calibration and Uncertainty - II Venue: Jacaranda I	Chairman: Manoj Jha Rapporteur: Hamid R Solaymani
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1:00 - 1:20 p.m.	Ajai Singh	Performance Evaluation and Uncertainty Analysis of SWAT Model for Simulating Hydrological Processes in an Agricultural Watershed in India
1:20 - 1:40 p.m.		
1:40 - 2:00 p.m.	Dharmendra Saraswat	Evaluating Land Use Land Cover Uncertainty Using SWAT2009_luc Tool
2:00 - 2:20 p.m.	Manoj K Jha	Integrated Modeling to Provide Policy Insight: Gulf of Mexico Hypoxia and CEAP Modeling Effort
2:20 - 2:30 p.m.	Discussion Et wrap Up	

Session F2: Climate Change Applications - IV Venue: Magnolia	Chairman: Nguyen Kim Loi Rapporteur: Sanjay Kumar Jain
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1:00 - 1:20 p.m.	Jong-Yoon Park	Impact of Future Climate Change on the Water Resources Systems of Chungju Multi-purpose Dam in South Korea
1:20 - 1:40 p.m.	Ankush Mahajan	Climate Change Implications on Drought and Flood Situation of the Krishna and Mahanadi River Basins
1:40 - 2:00 p.m.	Kim, Saet Byul	Assessment of Future Climate Change Impacts on Snowmelt and the Stream Water Quality in a Mountainous Watershed using SWAT
2:00 - 2:20 p.m.	Nguyen Kim Loi	Assessing Water Discharge in Be River Basin, Vietnam Using SWAT model
2:20 - 2:30 p.m.	Discussion Et wrap Up	

Session F3: Hydrology – VI

Venue: Casuarina

Chairman: M Perumal

Rapporteur: B.R.K. Pillai

1:00 – 1:20 p.m.	Raj Kachroo	Hydrological Models for Climate Change
1:20 – 1:40 p.m.	Jorge A Guzman Et Daniel Moriasi*	An Integrated Hydrologic Modeling Framework for Coupling SWAT With MODFLOW
1:40 – 2:00 p.m.	Sepideh Ramezani	A Comparison of Stream Flow Prediction Using Station and Gridded Meteorological Datasets in Iran
2:00 – 2:20 p.m.	Hyuk Jung	Comparison of Grid-based and SWAT HRU Modeling Approaches for Evaluating the Climate Change Impact on Watershed Hydrology
2:20 – 2:30 p.m.	Discussion Et Wrap Up	

Session F4: Large Scale Applications – II

Venue: Jacaranda II

Chairman: A. Tyagi

Rapporteur: Aniket Chakraborty

1:00 – 1:20 p.m.		
1:20 – 1:40 p.m.	Rajesh Thokal	Using ArcSWAT for Evaluation of Water Productivity and Economics of Crops in Canal Irrigation Command
1:40 – 2:00 p.m.	Tipaporn Homdee	Application of a Basin Scale Hydrological Model for Characterizing Flow and Drought Trend
2:00 – 2:20 p.m.		
2:20 – 2:30 p.m.	Discussion Et wrap Up	
2:30 – 2:45p.m.	Coffee Break	
2:45 – 6:30 p.m.	Depart for Conference Tour (Delhi Sightseeing)	
7:00 – 9:00 p.m	Conference Dinner	

Friday, July 20, 2012 9:00 a.m. - 10:30 a.m.		Session G1: Resources Applications – I Session G2: Sensitivity Calibration and Uncertainty - III Session G3: SWAT Applications and Innovations from the CGIAR Global Spatial Analysis and Modeling Topic Working Group (SAM) Session G4: Flood Modeling	Jacaranda I Magnolia Casuarina Jacaranda II
Session G1: Resources Applications – I Venue: Jacaranda I		Chairman: R. D. Singh Rapporteur: Rakesh Kumar (NIH, Roorkee)	
9:00 - 9:20a.m.	Dhanesh Y & B. Narasimhan*	Hydrological Modelling of Son and Ton River Basin Using SWAT	
9:20 - 9:40 a.m.	Sathian K.K.	Localised Variations in Water Scarcity: A Hydrologic Assessment Using SWAT and Spatial Techniques	
9:40 - 10:00 a.m.	T. Reshma	Simulation of Sub-Daily Runoff for an Indian Watershed Using SWAT Model	
10:00 - 10:20 a.m.	Yu, Young Seok	Analysis of Runoff Impact by Land Use Change Scenarios in an Urbanizing Watershed using SWAT Model	
10:20 - 10:30 a.m.	Discussion Et wrap Up		
Session G2: Sensitivity Calibration and Uncertainty – III Venue: Magnolia		Chairman: R Khosa Rapporteur: N. N.Rai	
9:00 - 9:20 a.m.	Reshmidevi T.V	Impact of Agricultural Intensification on the Water Resources in a Semi-Arid Catchment in India	
9:20 - 9:40 a.m.	Orachorn Kamnoet	Analysis of Major Parameters in a Tropical Climate Watershed Case Study: Tabma Subbasin, Thailand	
9:40 - 10:00 a.m.	Elham Rouholahnejad	Parallelizing SWAT Calibration in Windows Using SUFI2 Program	
10:00 - 10:20 a.m.			
10:20 - 10:30 a.m.	Discussion Et Wrap Up		

**Session G3: SWAT Applications and Innovations from the
CGIAR Global Spatial Analysis and Modeling Topic Working Group (SAM)**

Venue: Casuarina

Chairman: Charlotte MacAlister

Rapporteur: Jayshri Patel

9:00 - 9:20 a.m.	Daniel Fuka	Re-dimensioned CFS Reanalysis Data for Easy SWAT Initialization
9:20 - 9:40 a.m.	Charlotte MacAlister & Solomon Seyoum*	Applying Climate Reanalysis Data (CFSR) to Force Watershed Models in the Ethiopian Highlands
9:40 - 10:00 a.m.	Pabitra Gurung	Assessment of Climate Change Impact on Surface Water Availability in Koshi River Basin
10:00 - 10:20 a.m.	Natalia Uribe & Marcela Quintero*	Identification of Water-related Ecosystem Services Providing Units Using SWAT Model: An Input for the Design of PES scheme in the Andes
10:20 - 10:40 a.m.	Daniel Fuka	Simple Toolbox for Worldwide Topography Based Soils Reclassification for Initialization of SWAT
10:20 - 10:30 a.m.	Discussion & wrap Up	

Session G4: Flood Modeling

Venue: Jacaranda II

Chairman: Kapil Gupta

Rapporteur: C.T. Dhanya

9:00 - 9:20 a.m.	Rashmi Mittal	High Resolution Integrated Weather-Flood Modeling Framework
9:20 - 9:40 a.m.	Kobkiat Pongput Wangpimool*	Hydrological Evaluation with SWAT model and Numerical Weather Prediction for Flash Flood Forecast System: a case study for Upper Nan Basin in Thailand
9:40 - 10:00 a.m.	Narendra Kumar Tiwary	Real Time Flood Forecasting of Bagmati River Basin of Bihar, India Using SWAT model
10:00 - 10:20 a.m.		
10:20 - 10:30 a.m.	Discussion & wrap Up	

10:30-10:50 a.m. Coffee Break

10:50 a.m. - 12.00 p.m.		Session H1: Ganga River Basin Management - II Session H2: Climate Change Applications - V Session H3: Hydrology - VII Session H4: Database and GIS Applications & Development - II	Jacaranda I Magnolia Casuarina Jacaranda II
Session H1: Ganga River Basin Management - II Jacaranda I		Chairman: Pedro Chambel-Leitao Rapporteur: Navneet Kumar	
10:50 - 11:10 a.m.	Subashisa Dutta	Hydrologic Modelling of Kosi and Gandak Basins Using SWAT Model	
11:10 - 11:30a.m.	Puja Singh	Glacier and Snow Melt Modeling Using SWAT: Ganga Basin Case Study	
11:30 - 11:50 a.m.	D.L. Parmar	Calibration and Validation of QUAL2E Model on the Delhi stretch of the River Yamuna, India	
11:50 - 12:00 p.m.	Discussion & wrap Up		
Session H2: Climate Change Applications - V Magnolia		Chairman: K D Sharma Rapporteur: Sujana Dhar	
10:50 - 11:10 a.m.	Boini Narsimlu	Evaluation of Climate Change Impact on Water Resources in Upper Sind River Basin, India Using SWAT model	
11:10 - 11:30a.m.	A K Gosain	Climate Change Impact Assessment on Indian Water Resources - NATCOM Project	
11:30 - 11:50 a.m.	Paul D. Wagner	Assessing Climate Change Impacts on the Water Resources in Pune, India, Using Downscaling and Hydrologic modeling	
11:50 - 12:00 p.m.	Vinit Jain	Effect of Future Climate on Hydrologic Components for two watersheds Using SWAT	
	Discussion & wrap Up		
Session H3: Hydrology - VII Casuarina		Chairman: Jose Maria Bodeque Rapporteur: Sandeep Kulshreshth	
10:50 - 11:10 a.m.	Arjit Mishra	Assessment of Surface Water Yield Using SWAT Hydrological Model - Case Study of the Shipra Basin	
11:10 - 11:30a.m.	Abira Dutta Roy	Modeling Runoff Response to Changing Land Cover in Penganga Subwatershed, Maharashtra	
11:30 - 11:50 a.m.	Anand Verdhen	Efficiency of Snowmelt Modelling Approaches in Watershed Models	
11:50 - 12:00 p.m.	Discussion & wrap Up		

Session H4: Database and GIS Applications & Development - II

Venue: Jacaranda II

Chairman: Pierluigi Cau

Rapporteur: Chakresh Sahu

10:50 - 11:10 a.m.	Pedro Chambel-Leitao	An European SWAT Soil Database
11:10 - 11:30a.m.	Gopal H. Bhatti	Estimation of Evapo-transpiration in SardarSarovar Command Area Using WEAP
11:30 - 11:50 a.m.	Venkata Reddy Keesara	Application SWAT Model in Runoff Simulation of DMIP 2 Watersheds
11:50 - 12:00 p.m.	Discussion & wrap Up	
12:00 - 1:00 p.m.	Lunch	

1:00p.m. - 2:30 p.m.		Session J1: Model Development Session J2: Water Resources Applications - II Session J3: Poster Session Session J4: Environmental Applications - III	Jacaranda I Magnolia Casuarina Jacaranda II
Session J1: Model Development Venue: Jacaranda I		Chairman: Jeff Arnold Rapporteur: Puja Singh	
1:00 - 1:20 p.m.	Muthiah Perumal	A Simplified Channel Routing Scheme Suitable for Adoption in SWAT Model	
1:20 - 1:40 p.m.	Wei Ouyang	Water and Nutrients cycle Response to long term Agricultural Development and Soil Response	
1:40 - 2:00 p.m.	Mike White	SWAT Check: A Screening Tool to Assist Users in the Identification of Potential Model Application Problems	
2:00 - 2:20 p.m.	Purushottam E. Zope	Effect of Urbanization on the Mithi River Basin in Mumbai: A Case Study	
2:20 - 2:40 p.m.	Nidhi Janakkumar Shah	Estimation of Crop Water Requirement in Mahi Right Bank Canal Command Area	
2:40 - 3:00 p.m.	Discussion Et wrap Up		
Session J2: Water Resources Applications - II Venue: Magnolia		Chairman: Santhi Chinnasamy Rapporteur: Brijesh Yadav	
1:00 - 1:20 p.m.	Saeed Ashraf Vaghefi	Coupling Hydrologic and Water allocation Models for Basin Scale Water Resources Management Considering Crop Pattern Changes	
1:20 - 1:40 p.m.	Jesus Uresti Gil	Development of a SWAT Based Decision Support System to Assist in Selecting Suitable Agricultural Projects in the Tropical Southeastern México	
1:40 - 2:00 p.m.			
2:00 - 2:20 p.m.	Seong-Joon Kim	Evaluating the Reduction Effect of Nonpoint Source Pollution Loads from Upland Crop Areas by Rice Straw Covering Using SWAT	
2:20 - 2:40 p.m.			
2:40 - 3:00 p.m.	Discussion Et wrap Up		

Session J3: Poster Session

Venue: Casuarina

Chairman: R. Srinivasan

Rapporteur: Jayshri Patel

1:00 - 3:00 p.m.	M Azari	Modeling Impacts of Climate Change on Stream Flow and Sediment Yield: Implications for Adaptive Measures on Soil and Water Conservation in North of Iran
	Laurie Boithias	Are Conflicts in Water Allocation Scale-dependent? Analysis of Spatial Dependencies of the Demand to Supply Ratio of Water Provisioning in a Mediterranean River Basin
	Discussion & wrap Up	

Session J4: Environmental Applications – III

Venue: Jacaranda II

Chairman: Debjani Deb

Rapporteur: Nale Jyoti

1:00 - 1:20 p.m.		
1:20 - 1:40 p.m.	Arun Shourie Ravi	Estimation of Sediment Yield in KILIYAR Sub-watershed Using SWAT Model
1:40 - 2:00 p.m.	Payam Sajadi	Preliminary Results from Surface and Subsurface Hydrological Investigations of Dehgolan Plain (Iran-Kurdistan) using Geophysical Remote Sensing and GIS Techniques
2:00 - 2:20 p.m.	E. P. Rao & Prabhanjan	Sediment yield Modelling Using SWAT and Geospatial Technologies
2:20 - 2:40 p.m.	Poonam Ahluwalia	Comprehensive Water Stress Indicator
2:40 - 3:00 p.m.	Discussion & wrap Up	

3:00 - 4:00 p.m.

Closing

* Name of the Presenter

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