## Including water management in large scale studies of the water cycle

Wednesday 28 <sup>th</sup> of September		Thursday 29 <sup>th</sup> of September		Friday 30 <sup>th</sup> of September	
•		Chair : Pere Quintana		Chair : Richard Harding	
		9:00 – 9:30 Martina Flörke	Human processes in global hydrological models	Chris Taylor 9:00 – 9:30	Current knowledge on land- surface/atmosphere interactions and hot spots for the impact of irrigation on atmospheric processes
9:30 - 10:00	Registration and Break	9:30 – 10:00 Patrice Dumas	Projecting water demands and allocation using generic hydroeconomic modelling	9:30 – 10:00 Taikan Oki	Impact of anthropogenic water usage on sea-level
Chair : Martina Flörke	la top de cation		Lanca and an adulting of annual contact		land the fall and the second and the second
10:00 – 10:30 Richard Harding and Jan Polcher	Introduction	10:00 – 10:30 Richard Taylor	Large-scale modelling of groundwater resources: insight from a comparison of model data and in-situ observations	10:00 – 10:30 Dieter Gerten	Impact of climate change on water resources and interactions with human needs
10:30 – 11:00 Stefan Siebert	Survey based agronomic statistics and their application for land and water usage quantification	10:30 – 11:00	Break	10:30 – 11:00	Break
11:00 – 11:30 Jay Famiglietti	Satellite Observations Reveal the Human Fingerprint on the Global Freshwater Landscape	11:00 – 11:30 A. Nazemi	How to represent human-water processes in land-surface models: Current state and ways forward	11:00 – 11:30 Mark Decker	Impacts of Irrigation On The Climate of SouthEastern Australia
11:30 – 12:00 Hester Biemans	Irrigation techniques, their efficiency and their impact on water usage	11:30 – 11:50 Alban de Lavenn	A sequential calibration modeling strategy for an operational semi-distributed river flow model over France	11:30 – 12:00 Wim Thiery	Irrigation mitigates against local and regional heat extreme
12:00 – 12:30 Dave Wiberg	Economical and societal value of water and its management	11:50 – 12:10 Nicolas Flipo	Impact of groundwater withdrawals on surface-subsurface exchanges at the Seine basin scale	12:00 – 12:30 TBD	Water usage and demographic development
12:30 – 13:00 Pere Quintana Segu	The Ebro River: Same basin, different system.	12:10 – 12:40 Patricia Lawston	Progress and Challenges in Irrigation Modeling		
		12:40 – 13:00 Joshua Roundy	A simple large-scale routing scheme for seasonal streamflow predictions that includes reservoir characteristics		
13:00 – 14:30	Lunch	13:00 – 14:30	Lunch	13:00 – 14:30	Lunch
Chair : Taikan Oki		Chair : Aaron Boone			
14:30 – 15:00 Jimmy O'Keeffe	Water management challenges in the Indo- Gangetic Plain	14:30 – 14:50 Clement Albergel	Toward Water Management in the SURFEX modelling platform		of the cross-cut actions. Lead : Richard ling and Jan Polcher
15:00 – 15:20 Sayaka YOSHIKAWA	Efficacy of adaptation measures to future water scarcity on a global scale	14:50 – 15:10 Xudong Zhou	Adding water management in the ORCHIDEE model		
15:20 – 16:00	Break	15:10 – 15:30 Michael Ek	Introducing Human Influences in Land- surface models at NCEP		
16:00 – 16:20 Min-Hui Lo	Using satellite-based estimates of evapotranspiration and groundwater changes to determine anthropogenic water fluxes in land surface model	15:30 – 16:00	Break		
16:20 – 17:20 <b>Discussion lead</b>	by Martina Flörke and Taikan Oki	16:00 – 16:20 Gianpaolo Balsamo	Towards including anthropogenic surfaces in the ECMWF model: a challenge for global EO datasets		
Chair : Pere Quintana		16:20 – 16:40 Saman Razavi	Integrated Modelling of Hydrology and Water Management in a Land Surface- Hydrology Model		
17:20 – 17:50 Naota Hanasaki	Reservoir operation schemes in global hydrological models				
	nyarotogica models	16:40 – 17:00 Hyungjun <i>Kim</i>	Development of Offline Simulation Framework for Terrestrial Energy Water Cycles Incorporating Anthropogenic Processes.		
		17:00 – 17:20 Kenji Tanaka	Representation of irrigation water withdrawal in SiBUC		
		17:20 – 17:40 Marjolein van Huijgevoort	Implementation of irrigation practices in a global scale land model		
17:40 – 18:30 Discussion lead by Pere Quintana and Aaron Boone					