

Workshop IGEM

Impact of Groundwater in Earth system Models

October 3-5, 2016, Paris

The workshop will take place in a UPMC meeting room, tower 56, 2nd floor, hall 56-46 (maps on page 2).

Monday, Oct 3rd: GW use and properties			11 talks
9h	Welcome+coffee		
9h30	Introduction/Organisation/Round-Tables (RT)		
10h	Aureli	UNESCO: Addressing the Challenge of “Groundwater in a Changing Environment”	
10h30	Doell	Impact of human water use on groundwater, and information content of GRACE for understanding groundwater dynamics	
11h	Villholth	Large Scale Groundwater Assessments in Context of the Global Water-Food-Climate-Environment Nexus	
11h30	Wada	Fate of water pumped from underground and contributions to sea level rise	
12h	Discussion around the RT questions		
12h30	Lunch		
14h	Longuevergne	A few notes on GRACE information content for ESM improvement	
14h30	Krakauer	Remote sensing for groundwater in the Earth system	
15h	Yeh	Dynamics of Daily and Monthly Groundwater Recharge and Baseflow Based on 30-year Observations in Illinois	
15h30	Coffee break		
16h	Schneider	Estimation of the base flow characteristic time scale for global applications	
16h20	Tootchi	Delineation of groundwater-fed riparian wetlands: challenges and advances for the global scale	
16h40	Rashid	Evaluating groundwater balance components as an indicator of over exploited groundwater resource in a semi-arid crystalline aquifer	
17h	Habets	AquiFR : a national multimodel hydrogeologic system	
17h30	Discussion		
18h	Constitution of RT groups		
18h30	Welcome cocktail: cheese & wine		

Tuesday, Oct 4th: GW modelling			10 talks
9h	Xie	Effects of anthropogenic water regulation and groundwater lateral flow on land processes	
9h30	Maxwell	Connections between groundwater flow and transpiration partitioning	
10h	Condon	Evaluating groundwater surface water interactions across the continental US using an integrated hydrologic model	
10h30	Coffee break		
11h	Leung	Modeling surface water - groundwater interactions in the ACME Earth System Model	
11h30	Yang	Understanding groundwater hydrological coupling in a land surface model based on multi-sensor satellite data assimilation	
12h	Discussion		
12h30	Lunch		
14h	Sulis	Groundwater-landsurface-atmosphere simulations: An overview of experiences and results using TerrSysMP	
14h30	Hazenberg	Development of a hybrid 3-D hydrological model to simulate hillslopes and the regional unconfined aquifer system in Earth system models	
15h	Maquin	An hydrological column model for predicting interactions between water table and evapotranspiration	
15h30	Coffee break		
16h	Reinecke	Global-scale gradient-based groundwater modeling within the global hydrological model	
16h30	Sutanudjaja	A century-long simulation of terrestrial water storage change and its contribution to global sea-level	
17h	Discussion and RT work		
18h30	Departure for the Buttes Chaumont		
19h30	Social dinner at "Le Pavillon du Lac"		

Wednesday, Oct 5th: GW-climate interactions			7 talks
9h	Colin	Modelling of floodplains and aquifers in global climate simulations : evaluation and impact	
9h30	Lo	The contrasting impacts of climate change on groundwater hydrology in the world’s major aquifers	
10h	Fan	Groundwater and plant root interactions: Impact on global water and carbon cycle	
10h30	Coffee break		
11h	Ducharne	Groundwater-soil moisture-climate interactions: lessons from idealized model experiments with forced water table depth	
11h30	Lan	Responses of Atmospheric General Circulation to Groundwater	
11h50	Chien	Impacts of groundwater on the atmospheric convection in Amazon using multi-GCM simulations from I-GEM project	
12h10	Wang	Impact of a prescribed groundwater table on the near surface climate in the IPSL land atmosphere coupled model	
12h30	Lunch		
14h	Work in RT groups		
15h30	RT restitutions		
16h30	Closure		

UPMC Campus map. The numbers indicate the « towers », and the entrance is presently at the foot of tower 46.



The workshop will take place in a meeting room, tower 56, 2nd floor, hall 56-46.

From Hotel Saint Christophe, 17 rue Lacépède, to UPMC. The entrance is at the red pin.

