

Special Program in Applied Mathematics and Applied Mechanics

Including groundwater in land surface models for hydrologic and climatic applications

2015 - 11 - 04 (Wed.)

15:00 - 18:00

308, Mathematics Research Center Building (ori. New Math. Bldg.)

Historically, land surface models aim at describing the water and energy budget of land areas, and are restricted to the soil-vegetation interface with the atmosphere. Yet, groundwater can extend deep below the soil, often under the form of a water table, with important effects on the spatio-temporal variability of soil moisture and river discharge. Based on research I've been involved in over the last 15 years, I will present several attempts to include a representation of groundwater in land surface models, and highlight the resulting effects on hydrologic and climatic variability.



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