



# Spring School 2010

## „Merging models with data – advanced methods in hydrology and meteorology“

A DFG funded spring school organized by the young scientist network HyMeDas  
**Bad Schandau, Germany, 25. - 30. April 2010**

### Why?

Do you know why your model does not fit your observations? What lessons do you learn from such discrepancies? Various disciplines have found different answers: Hydrologists will tend to adapt parameters and model formulations whereas meteorologists will update the initial state. This spring school brings together this complementary expertise to exchange methods and to foster novel comprehensive approaches.

### Who?

We invite PhD students and young researchers working in geosciences, who are interested in using observational data more efficiently for modeling purposes.

### What?

Topics covered - among others - are

- Sources of uncertainty,
- Ensemble modeling,
- Parameter estimation method,
- State estimation e.g. by Ensemble Kalman filters,
- Bias estimation and correction and
- Perspectives of comprehensive data assimilation.



All theoretical lectures will be complemented with practical toy model exercises. The course is free of charge. Expenses for food and lodging are covered. Travel funding can be applied for with the DFG (see more details on the Spring School webpage).

### Lectures by international experts ...

Hoshin Gupta, *University of Arizona, USA*  
 Brian Hunt, *University of Maryland, USA*  
 Rolf Reichle, *NASA, USA*  
 Luis Samaniego, *UFZ, Leipzig, Germany*

### ... and the members of the young scientist network on hydrological and meteorological data assimilation (HyMeDas):

Felix Ament, *University of Hamburg, Germany*  
 Stefan Hagemann, *MPI for Meteorology, Hamburg, Germany*  
 Anke Hildebrandt, *UFZ, Leipzig, Germany*  
 Daniel Leuenberger, *MeteoSwiss, Zurich, Switzerland*  
 Eva Müller, *University of Potsdam, Germany*  
 Florian Pappenberger, *ECMWF, Reading, UK*  
 Bettina Schaefli, *Delft University of Technology, The Netherlands*

For questions, more details and for application, please visit the following website:

[hymedas.zmaw.de](http://hymedas.zmaw.de)

(Deadline for Application: 17 January 2010)