



Vienna Catchment Science Symposium, Saturday 3rd May, 2025

On the Theme of: Hydrological Scaling Revisited

12th Symposium

Hydrological observations and process studies are usually conducted at small spatial scales, while water management decisions, and the models that support them, are needed at larger, landscape scales. The methodological challenge of bridging this scale gap has attracted a lot of research in the 1980s and 1990s, but has received less attention in recent years, even though the issue persists. The aim of this symposium is to explore the conceptual foundations of the topic in light of recent advances in measurement and modelling approaches, and to identify potential directions for future research on addressing the scaling problem.

<u>Time</u>	Session	Location
8:30	Tea, coffee, pastries and greetings	Prechtlsaal
8:45	Welcome and Introduction	Prechtlsaal
	Günter Blöschl	
9:00	Hydrological scaling: Taking stock and looking ahead	Prechtlsaal
	Günter Blöschl, TU Wien, Austria, University of Bologna, Italy	
10:10	Tea and coffee	Prechtlsaal
10:45	Structure and organization as scaffolds for upscaling	Prechtlsaal
	Sally Thompson, University of Western Australia	
11:55	Short break	Prechtlsaal
12:00	Novel scaling approaches in physically based models	Prechtlsaal
	Harrie-Jan Hendricks Franssen, Forschungszentrum Jülich, Germany	
13:10	Lunch	Prechtlsaal
14:15	Scaling, where to go from here?	Prechtlsaal
	Tissa Illangasekare, Colorado School of Mines, USA	
14:35	Small group discussion sessions	
	Group 1: Towards a general scaling framework of rainfall-runoff processes	Prechtlsaal
	Aim: to brainstorm what universal conceptualisations could contribute to a	
	scaling framework of model equations and parameters that link local, hillslope and catchments scales	
	Moderator: Alberto Viglione	
	Group 2: Framing the testing of scaling relationships	Seminar room
	Aim: to brainstorm the methods (data, models, frameworks) required to	AD0309 (3rd floor)
	explore whether hydrological scaling relationship are suitable for	
	transferring information across spatial scales.	
	Moderator: Harrie-Jan Hendricks Franssen	
16:00	Tea and coffee	Prechtlsaal
16:30	Plenary: Exchange of group findings	Prechtlsaal
17:30	Evening drinks reception followed by dinner	Prechtlsaal

Location: Prechtlsaal, TU Wien. Karlsplatz 13, ground floor, 1040 Vienna

