



中德“中亚干旱区生态系统可持续管理 与环境演变”学术交流会第二轮通知

Sino-German Management of Ecosystems and Environmental Changes in Arid Lands in Central Asia

会议资助：中德科学基金研究交流中心、德国大众集团

主办单位：中德干旱区生态与环境联合研究中心

承办单位：中国科学院新疆生态与地理研究所、德国慕尼黑理工大学

一、会议主要议题

- 1 气候变化对中国及中亚干旱区的影响
- 2 人类活动对干旱区的影响
- 3 环境过程
- 4 减缓气候变化
- 5 干旱区水资源管理
- 6 干旱区生态系统及生物多样性管理
- 7 干旱区的可持续管理
- 8 干旱区管理政策
- 9 干旱区的社会-经济
- 10 干旱区城镇可持续发展研究

二、会议安排：

- 1、会议时间：2014年9月22日至9月26日。
- 2、会议地点：国新疆乌鲁木齐经济技术开发区广州街1号新疆锦泰源商务酒店。
- 3、报到时间：2014年9月21日 10:00至18:30（北京时间）。
- 4、会议联系方式：
Tel: +86-991-7671820; +49 (0) 89 54 01 420; +86-13669977510; +86-13319817800
联系人：王青青 康静静 *Christian Rumbaur*

Email: sinogermanmeecal@163.com; christian.rumbaur@tum.de

Ziele des Symposiums :

研讨会目标:

The symposium is organized in the frame of the “Sino-German Joint research Center for the Management of Ecosystems and Environmental Changes in Arid Lands (MEECAL)”. This center was established by scientists of the Technische Universität München, Universität der Bundeswehr München and the Xinjiang Institute of Geography and Ecology, Chinese Academy of Sciences in Urumqi. MEECAL addresses water and land management with regard to the maintenance of ecosystems and research the impact of human activities and climate change on ecosystems. Homepage for details: www.sinogermanmeecal.de .

The aim of the symposium is to bring together researchers and anyone who is interested in the field of arid land management to discuss the most recent advances in this research fields, to exchange experiences, knowledge and promote future research. The symposium will focus on the arid regions in China and countries of Central Asia.

The symposium will address the following topics:

1. Impact of climate change to arid lands in China and Central Asia
2. Impact of human activities to arid lands
3. Environmental processes
4. Mitigation of climate change
6. Ecosystem management in arid lands (including Biodiversity)
7. Sustainable management of arid lands
8. Policies for the management of arid lands
9. Socio-economy
10. Green city and others in arid lands

三、会议日程安排 Überblick über die Programmgestaltung des Symposiums in Zahlen

Date	Time (BJT)	Event	Lecturer	Chair
21.09.2014	10:00-18:30	<i>Arrival/Registration</i>		

22.09.2014	09:30-10:00	<i>Registration</i>		
	10:00-10:30	Welcome speeches Prof.Dr.Chen Xi Prof.Dr. Markus Disse Prof. Dr. Chen Lesheng Dr. Thomas Fischer		
		1. Impact of climate change to arid lands in China and Central Asia	Lecturer	Chair
	10:40	<i>Hydrological modelling of the Tarim tributaries for climate impact assessments</i>	Michel Wortmann	Chen Xi
	11:00	<i>Ecological response to the climate change on the northern slope of the Tianshan Mountains in Xinjiang</i>	Chen Xi	

11:20	<i>Hydrological modeling for assessing climate change impacts on discharge of the Aksu River</i>	Doris DÜthmann	
11:40	<i>Climatic and Hydrologic Changes of Past 500 Years in Central Asian Arid Zone</i>	Feng Zhaodong	
12:00	<i>Permafrost and Glaciers in the Aksu (P.R. China) and Naryn catchments (Kyrgyzstan): distribution and relevance for the water balance and as hazard factors for a sustainable development in Central Asian mountain areas</i>	Lorenz King	
12:20-12:40	Coffee/Tea Break		
2. Impact of human activities to arid lands			
12:40	<i>Nutrients and pollutants in agricultural soils in the peri-urban region of Beijing: status and recommendations</i>	Marco Roelcke	Disse/Markus
13:00	<i>Spatial Pattern of Populus euphratica Forest Change as Affected by Water Conveyance in the Lower Tarim River</i>	Jing Qian	
13:20	<i>Performance of Populus euphratica in riparian forests of the Tarim Basin, NW China: Effects of use and distance to the ground water</i>	Frank Thomas	
13:40	<i>Spatial and Temporal Dynamic of Soil Water Content in Desert-Oasis Ecotone</i>	Zhao Chenyi	
14:00	<i>Growth and yield response of cotton to deposition of chemically inert dust in North West China</i>	Joachim Müller	
14:20-15:00	Lunch		
3. Environmental processes		Lecturer	Chair
15:00	<i>Hydrological responses of land-use change under climate change conditions in the arid area in Zhungeer basin in China</i>	Yu Ruide	Bernd Cyffka
15:20	<i>Spatial-temporal patterns of forest degradation dynamics in the Tarim River Basin</i>	Philipp Gärtner	
15:40	<i>Temporo-spatial processes of salinity of Bosten Lake in Xinjiang, Northwest China</i>	Liu Ying	
16:00	<i>Water consumption of cotton and natural vegetation at river basin scale along the Tarim River, China</i>	Niels Thevs,	
16:20	<i>Soil Environmental Background Concentrations in Xarxili in China</i>	Yong-hui Wang	
16:20-16:40	Coffee/Tea Break		
4. Mitigation of climate change			
16:40	<i>Estimation of evapotranspiration and soil moisture from Landsat products using SEBAL model</i>	Wu Zhaopeng	Lei Jiaqiang
17:00	<i>CO₂-Uptake of saline soils in the Tarim Basin :Principles and first results</i>	Karl Stahr	
17:20	<i>Climate change and its impact to arid land in center Asia</i>	Zhang Chi	
5. Policies for the management of arid lands			

	17:40	<i>Global agreements for arid lands-UNCCD and IPBES as science-policy interfaces</i>	Axel Paulsch	
	18:00	<i>Desert Management Xinjiang P.R.China</i>	Lei Jiaqiang	
	18:20	<i>The Economics of Land Degradation –An Initiative for Utilizing Land Use Management and Foster Economic Development and Sustainability</i>	Hannes Etter	
	18:40			
	19:00-19:20			
	20:30	Conference Dinner		

23.09.2014	6. Ecosystem management in arid lands (including Biodiversity)		Lecturer	Chair
	10:40	<i>The Effect of Extreme Climatic Events on Extreme Runoff in the Past 50 Years in the Manas River Basin, Xinjiang, China</i>	Tang Xiang Ling	Christian Rumbaur
	11:00	<i>Ecosystem Services of Riparian Forests at the Lower Reaches of Tarim River, NW China (SuMaRiO)</i>	Martin Kuba,	
	11:20	<i>Prioritizing biodiversity in conservation planning based on C-Plan:A case study from northwest China</i>	Luan Xiaofeng	
	11:40	<i>Central Asia Water (CAWa) - A visualization platform for hydro-meteorological sensor data</i>	Matthias Schröder	
	12:00-12:20	Coffee/Tea Break		
	7. Sustainable management of arid lands			
	12:20	<i>Sustainable land management- a research programme to develop applicable solutions</i>	Cornelia Paulsch	Li Jiao
	12:40	<i>SuMaRiO - Sustainable Management of River Oases along the Tarim River</i>	Christian Rumbaur	
	13:00	<i>Indicator-based decision support for sustainable development of river oases along the Tarim River, P.R. China</i>	Andreas Brieden,	
	13:20	<i>Increasing the Cotton Yield and Improving the Ecology in Cotton Fields by Utilizing the Properties of Natural Resources in Xinjiang, Chana</i>	Tian Changyan	
	13:40	<i>Spatial Variability of Soil Nutrients in Ebinur Lake Wetland in China</i>	Li Jiao	
	14:00-15:00	Lunch		
			Lecturer	Chair
	15:00	<i>Status quo, past and future water problems in Central Asian transnational rivers, with special consideration of the Zarafshon River</i>	Christian Opp	Luan Xiaofeng
	15:20	<i>Ecosystem Services of Riparian Forests at the Lower Reaches of Tarim River, NW China</i>	Bernd Cyffka	
	15:40	<i>Area differentiated modeling of the groundwater recharge below riparian forests and the impact of land use change along the Tarim River in Northwest China</i>	Patrick Keilholz	

	16:00	<i>Integrated Water Resource Management under different perspectives – examples from Europe, Ethiopia and the United States</i>	Markus Disse	Petra Döll
	8. Socio-economy			
	16:20	<i>Development of agricultural land and water use and its driving forces in the Aksu-Tarim Region, Xinjiang, China</i>	Til Feike	
	16:40	Assessing the Nonuse Values from a More Sustainable Oasis Management in the Tarim Basin – A Contingent Valuation Study	Michael Ahlheim	
	16:40-17:00	Coffee/Tea Break		
	17:00	<i>Efficient 3D shape acquisition and registration using hybrid scanning data-case study in NW China</i>	Zheng Hongwei	
	17:20	<i>Irrigation in the Tarim Basin, China - Farmers' response to changes in water pricing practices</i>	Til Feike	
	17:40	Soil organic carbon loss at north slope of Tianshan Mountains resulted from land cover change from Schrenk's spruce forest to croplands and grasslands.	Xu Zhonglin	
	9. Sustainable management of urban areas in arid lands			
	18:00	<i>Mitigation Effects of Urban Forests on Thermal and Dust Stress in the Oasis Cities, Northwest China</i>	Ümüt Halik	
	18:20	Plant diversity and sustainable management	Guan Kaiyun	
	18:40	<i>Modeling ecosystem services of urban and peri-urban vegetation using Bayesian Networks</i>	Petra Döll	
	19:00	<i>Ecological Effects of the Water Conveyance Embankments on the Natural Vegetation in the Middle Tarim River</i>	Pu Zhi	
	19:20-19:40	<i>RECAST Urumqi - towards a greener Urumqi city</i>	Thomas Sterr	
20:30	Dinner			

24.09.2014	10. Green city and others in arid lands			Yu Ruide
	10:40	Plant diversity in arid lands in central Asia	Zhang Yuanming	
	11:00	Transdisciplinary research for supporting the integration of ecosystem services into land and water management in the Tarim River Basin, Xinjiang, China	Siew/Tuck Fatt	
	11:20	Model for calculating suitable scales of oases in a continental river basin located in an extremely arid region, China	Ling Hongbo	
	11:40	Make Urumqi a Green City – Perspectives for Recycling and Utilization of Civil Wastes in Urumqi following the German Model	Lu Yinong	
	12:00-12:20	Coffee/Tea Break		
	12:40	Belowground net primary productivity and biomass allocation of a grassland in Inner Mongolia is affected by grazing intensity	Zhao Ying	
	13:00	Make Urumqi a Green City –Green energy reduction and reusing of resources	Dai Yan	

	13:20	Distribution of ephemeral Plants and Their Significance in Dune Stabilization in Gurbantunggut Desert	<i>Wang Xueqin</i>		
	13:40	Response of fluvial morphology of arid zone rivers to human impacts - With a case study of Tarim River, Xinjiang, northwest China	Guo-An Yu		
	14:00-15:00	Lunch			
				Chair	
	15:00	Workshop			
	15:00	Group discussions on (1) ecosystem services, (2) external socio-economic drivers on the Tarim basin, (3) identify possible land and water management measures			
	15:30				
	16:00				
	16:30-17:00	Coffee/Tea Break			<i>Tuck Fatt Siew</i>
	17:00	Workshop			
	17:30	Group discussions on (1) ecosystem services, (2) external socio-economic drivers on the Tarim basin, (3) identify possible land and water management measures			
	18:00				
	20:30	Dinner			