

**Sino-German PhD Workshop “Hydro-Climatological Extremes”
December 07, 2021**

Online PhD Workshop of the Sino-German Cooperation Group „Managing Risk of Water Scarcity“

All presentations were given by PhD students.

Coordination

Chair of Engineering Hydrology and Water Management of TU Darmstadt
and Nanjing University of Information Science & Technology

Date

December 07, 2021

Participants

i) FROM CHINA

- Nanjing University of Information Science & Technology
- NIGLAS, CAS
- Nanjing Forestry Univ.
- National Climate Center of China
- Beijing Meteorological Service
- Hohai University
- NingBo University
- Jiangxi Normal University, Nanchang

ii) FROM GERMANY

- TU Darmstadt
- TU Munich
- Univ. Kiel



Nanjing University of
Information Science and Technology



ihwb Ingenieurhydrologie und
Wasserbewirtschaftung

HYDRO-CLIMATOLOGICAL EXTREMES

December 7, 2021

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Sino-German Cooperation Group
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Supported by:



Workshop Program

Time Germany	Time China	Activities
08:00- 08:10	15:00- 15:10	Welcome Britta SCHMALZ (Technical University of Darmstadt) Guojie WANG (Nanjing University of Information Science and Technology)
Session 1		<i>4 Presentations (each 10 min. + 5 min. discussion)</i>
		<i>Heavy Rainfall, Flooding and Erosion</i>
08:10- 08:25	15:10- 15:25	Mr. Zhen DONG, Nanjing University of Information Science & Technology: Monitoring the summer flooding in the Poyang Lake area of China in 2020 based on Sentinel-1 data and multiple convolutional neural networks
08:30- 08:45	15:30- 15:45	Mr. Dominik SCHOLAND, Britta SCHMALZ, Technical University of Darmstadt: Estimation of catchment soil erosion caused by heavy rainfall events using in-stream suspended sediment data
		<i>Drought and Low Flow</i>
08:50- 09:05	15:50- 16:05	Mrs. Huiyan JIANG, Nanjing University of Information Science & Technology: Future droughts in CMIP6 projections over China--an evaluation incorporating CO ₂ effect
09:10- 09:25	16:10- 16:25	Ms. Paula F. GROSSER, Britta SCHMALZ, Technical University of Darmstadt: Projections of climate change and future drought in a German low mountain range basin based on bias adjusted, high resolution EURO CORDEX ensembles for two emission scenarios
09:25- 09:35	16:25- 16:35	<i>Break</i>
Session 2		<i>4 Presentations (each 10 min. + 5 min. discussion)</i>
09:35- 09:50	16:35- 16:50	Mrs. Donghan FENG, Nanjing University of Information Science & Technology: Soil moisture changes from a harmonized CMIP6 projection in China
09:55- 10:10	16:55- 17:10	Mr. Shijie LI, Nanjing University of Information Science & Technology: Increasing vapour pressure deficit accelerates future drying
10:15- 10:30	17:15- 17:30	Ms. Lu TIAN, Ye TUO, Markus DISSE, Technical University of Munich: The time evolution of drought signals among different hydrological components in Central Asia
10:35- 10:50	17:35- 17:50	Mr. Jiayi TIAN, Nanjing Forestry University: Influence of Three Gorges Dam on downstream low flow
10:50- 11:00	17:50- 18:00	Closing of the event (Britta SCHMALZ, Guojie WANG)