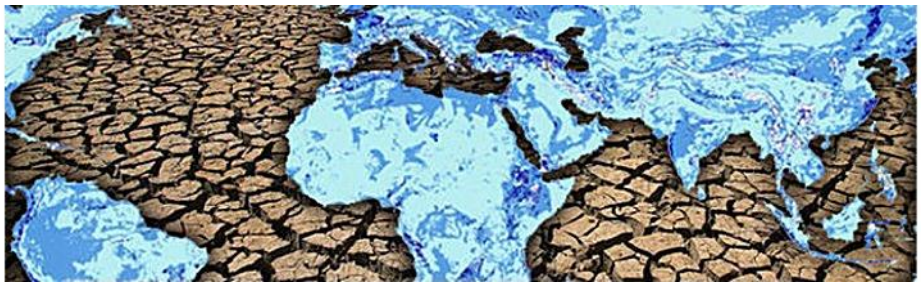
Commission for Water Sustainability



MEMBER PROFILE

Prof. Dr. Chansheng He

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Study areas	
Countries / Regions	USA and China

Topics of last three projects	
1	Impacts of land use/cover change on surface water-energy processes.
2	Impacts of soil heterogeneity on hydrological processes.
3	Nonpoint source pollution modelling

	Topics of last 10 publications	**Publication links**
1	TIAN, Jie, Baoqing ZHANG*, Chansheng HE*, Xiao BEI .2016. Variability of Soil Hydraulic Conductivity and Soil Hydrological Response under Different Land Cover in the Mountainous Area of the Heihe River Watershed, Northwest China. Land Degradation.	
2	He, C. 2016. Quantifying Drivers of the Sediment Load Reduction in the Yellow River Basin. National Science Review (SCI), 3(2): 155-156.	DOI: 10.1093/nsr/nww014
3	JIANG, Yiwen, Lanhui Zhang*, Baoqing ZHANG, Chanshegn HE*, Xin JIN and Xifeng ZHANG. 2016. Modeling Irrigation Management for Water Conservation by DSSAT Model in arid Northwestern China. Agricultural Water Management (SCI), 177:37-45.	http://dx.doi.org
4	Zhang, Baoqing and Chansheng He*. 2015. A modified water demand estimation method for drought identification over arid and semiarid regions. Agricultural and Forest Meteorology (SCI).	http://dx.doi.org/10.1016/j.agrformet.2015.11.015
5	ZHANG, Lanhui, Xin JIN, Chansheng HE*, Baoqing ZHANG, Xifeng ZHANG, Chen ZHAO Jinlin LI, Jie Tian and Carlo DeMarchi. 2016. Comparison of a concept model and a physically-based model for hydrological modeling of a mountainous watershed in arid Northwest.	
6	ZHANG, Baoqing, Chansheng He*, Morey Burnham, and Lanhui Zhang. 2015. Evaluating vegetation cover response to drought and their coupling effects on runoff and sediment yield on the Loess Plateau, China. Science of the Total Environment, 539:436-449.	
7	Jin, X, L. Zhang, J. Gu, C. Zhao, J. Tian, and C. He*. 2015. Modeling the Impacts of Spatial Heterogeneity in Soil Hydraulic Properties on Hydrologic Process in the Upper Reach of the Heihe River in the Qilian Mountains, Northwest China. Hydrological Process.	
8	Zhang, L., S. Wang, C. He*, K. Shang, L.Meng, X.Li, and B. M. Lofgren. 2015. A new method for instant correction of Numerical Weather Prediction Products in China. Science China - Earth Sciences (SCI) 58(2):231-244.	DOI: 10.1007/s11430-014-4957-6
9	Zhang, X., L. Zhang, C. He*, J. Li, and Y. Jiang. 2014. Quantifying the impacts of land use/ land cover change on groundwater depletion in Northwestern China - a case study of the Dunhuang Oasis. Agricultural Water Management (SCI), 146:270-279	
10	He, C, L. Zhang, C. DeMarchi, and T.E. Croley II. 2014. Estimating Spatial Distribution of Point and Nonpoint Sources Pollution Loads in the Saginaw Bay Watersheds Journal of Great Lakes Research Supplement (SCI) 40 (2014) 11–17.	http://dx.doi.org/1

Research interests in water

Climate & Water	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
Hydrological extreme events	Floods	Droughts	Ice phenomena							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge						
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						