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研究专业：水文水资源

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教育经历

2000.9-2004.7 中国地质大学（北京）水资源与环境学院 环境工程专业 工学学士

2004.9-2007.7 北京师范大学水科学研究院 环境科学专业 工学硕士

2007.10-2010.9 日本国立山梨大学研究生院 流域综合管理专业 工学博士

主要工作经历

2010.10-2011.9 日本国立山梨大学国际流域环境研究中心 研究员

2011.10-2012.7 北京师范大学水科学研究院 讲师

2012.7 - 至今 北京师范大学水科学研究院 副教授

主要研究领域

1.流域水文模型及不确定性分析

2.地表水遥感水文学

3. GIS在水科学领域的应用

4. 水资源评价与管理

代表性研究项目

1. 国家自然科学基金“植被与水文过程双向耦合的流域分布式水文模型研究”（2013-2015），主持
2. 北京师范大学理科青年基金“基于BTOPMC模型的气候变化对晋江流域径流过程的影响研究”（2012-2013），主持
3. 环保部战略环评参与宏观决策研究专项之“西南地区战略环评水资源评价”（2012-2013），技术负责人
4. 水利部发展研究中心项目“地下水集中式饮用水源地保护管理制度与保障措施研究”（2012-2013），技术负责人
5. 水利部发展研究中心项目“海水淡化配置水资源的影响因素和理论分析研究”（2011-2012），技术负责人
6. 日本学术振兴学会（JSPS）科学研究资助基金基础研究项目“基于流域水文模型和遥感技术相融合的无资料地区河流流量推算研究（2009-2010），技术负责人
7. 国家自然科学基金重点支持项目“黑河流域中游地区生态-水文过程演变规律及其耦合机理研究”（2012-2015），技术骨干
8. 水利部水利水电规划设计总院项目“全国各水资源分区用水量汇总分析”（2012-2013），技术骨干
9. 日本科学振兴机构(JST)战略创造研究推进事业研究项目（CREST）“气候变化背景下城市可持续供水系统研究（2009-2014），技术骨干

代表性论文

1. **Sun W**, Ishidaira H and Bastola S. 2012. Calibration of hydrological models in ungauged basins based on satellite radar altimetry observations of river water level, *Hydrological Processes*, 26(23): 3524–3537. (SCI)
2. **Sun W**, Ishidaira H and Bastola S. 2012. Prospects for calibrating rainfall-runoff models using satellite observations of river hydraulic variables as surrogates for in situ river discharge measurements, *Hydrological Processes*, 26(6): 872–882. (SCI)
3. **Sun W**, Ishidaira H and Bastola S. 2010. Towards improving river discharge estimation in ungauged basins: calibration of rainfall-runoff models based on satellite observations of river flow width at basin outlet, *Hydrology and Earth System Sciences*, 14: 2011-2022. (SCI)
4. **Sun W**, Ishidaira H and Bastola S. 2012. Calibration of rainfall-runoff models based on satellite observations of river width at the basin outlet, *Remote Sensing and Hydrology 2010 Symposium*, Jackson Hole, Wyoming, USA, IAHS Publication, 352: 468-472. (EI)
5. **Sun W**, Ishidaira H and Bastola S. 2011. On utilizing river widths measured from synthetic aperture radar images for calibrating rainfall-runoff models in ungauged basins, *JH-01 Workshop, IUGG2011*, Melbourne, Australia, IAHS Publication, 343: 59-65. (EI)
6. **Sun W**, Ishidaira H and Bastola S. 2008. Contribution of river width derived from satellite images to retrieve river discharge through rainfall-runoff modeling, *Journal of Sichuan University (Engineering Science Edition)*, 41(S2): 205- 214. (EI)

7. Wu S, Ishidaira H and **Sun W**. 2012. Potential Impact of the Sambor Dam Project on Tonle Sap Lake Ecosystem Based on Remote Sensing Imaging, Remote Sensing and Hydrology 2010 Symposium, Jackson Hole, Wyoming, USA, IAHS Publication, 352:248-252. (EI)

8. **Sun W**, Ishidaira H and Bastola S. 2011. Coupling a hydraulic model incorporating river cross-sectional geometry derived from high resolution DSM with a hydrological model for river discharge estimation, Journal of Hydrosience and hydraulic engineering, 29(1): 57-68.

9. **Sun W**, Ishidaira H and Bastola S. 2010. An integrated approach incorporating river cross-sectional geometry derived from high resolution DSM for river discharge estimation, Annual Journal of Hydraulic Engineering, Japan Society of Civil Engineering, 54: 1-6.

10. **Sun W**, Ishidaira H and Bastola S. 2009. Estimating discharge by calibrating hydrological model against water surface width measured from satellites in large ungauged basins, Annual Journal of Hydraulic Engineering, Japan Society of Civil Engineering, 53: 49-54.

11. Wu S, Ishidaira H, **Sun W** and Magome J. 2011. Coupling RLWE model with distributed hydrological model for water budget simulation in the Tonle Sap Lake. Annual Journal of Hydraulic Engineering, Japan Society of Civil Engineering, 55, in press.

12. Wu S, Ishidaira H and **Sun W**. 2010. Potential impact of Sambor dam project on interaction between Mekong River and Tonle Sap Lake, Annual Journal of Hydraulic Engineering, Japan Society of Civil Engineering, 54: 109-114.

13. **Sun W**, Ishidaira H and Bastola S. 2009. Integration of satellite-derived river width, hydraulic geometry and a rainfall-runoff model for tracing river discharge, European Space Agency Special Publication SP-674 for the EGU Topical Conference on Earth Observation & Water Cycle Science, ESRIN, Frascati, Rome, Italy, November 18-20, 2009.