

Acknowledgements

We thank all the scientists, engineers and students who participated in the HiWATER field campaigns. In total, around 330 individuals from 31 institutions and companies (Table 1) have involved in the intensive observation period (IOP) of HiWATER. The Scientific Steering Committee members in China (Table 2) and the International Advisory Committee members, Prof. Henk de Bruin, [Prof. Qingyun Duan](#), [Prof. Paolo Gamba](#), [Prof. Wolfgang Kinzelbach](#), [Prof. Toshio Koike](#), [Prof. Xuhui Lee](#), [Prof. Massimo Menenti](#), [Prof. John Pomeroy](#), [Prof. Kurt Roth](#), [Prof. Soroosh Sorooshian](#), [Prof. Bob Su](#), [Prof. Harry Vereecken](#), [Prof. Wolfgang Wagner](#), [Prof. Jeffery Walker](#) and [Prof. Howard Wheater](#) of HiWATER are thanked for their invaluable comments and advices since 2010.

HiWATER is jointly supported by two project groups titled “Heihe Watershed Allied Telemetry Experimental Research” (grant numbers: 91125001, 91125002, 91125003, 91125004) and “Remote Sensing Data Products in the Heihe River Basin: Algorithm Development, Data Products Generation and Application Experiments” (KZCX2-XB3-15), respectively funded by the National Natural Science Foundation of China (NSFC) and Chinese Academy of Sciences. The planning of HiWATER is supported by the NSFC project “Development of a Catchment-Scale Land Data Assimilation System” (grant number: 40925004). The establishment of the wireless sensor network (WSN) was supported by the project “Building and Application Demonstration of Research Information Infrastructure Based on the Next Generation Internet” (grant number: Y002025412) and the project “Building of an Integrated Satellite Borne-Airborne-Ground-Based Quantitative Remote Sensing System and It’s Application Demonstration-1st phase” (grant number: 2012AA12A305). In addition, the “Close Water Cycle at the River Basin Scale Using Remote Sensing Data” (project ID 10649) within the Dragon 3 program provides some satellite remote sensing data.

The logistics issues of HiWATER were taken care by Ms. Lanhong Zhong and Mr. Han Tang. The support from China Meteorological Administration (CMA) Zhangye local office, Zhangye Water Authority, the cooperation of the local government of Zhangye city, Gansu Province and the Qilian county, Qinghai province and the hospitality of local people are warmly appreciated.

Table 1 People and institutions/companies participated in the IOP of HiWATER

No.	Affiliations (The former 3 ones are leading institutions)	Number of people	Names
1	Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI), Chinese Academy of Sciences (CAS)	73	Xin Li, Mingguo Ma, Jiemin Wang, Tao Che, Rui Jin, Jianwen Guo, Yuan Qi, Weizhen Wang, Jian Zhou, Yingchun Ge, Xiaobo He, Youhua Ran, Lanhong Zhong, Junlei Tan, Xiaoli Hu, Shuguo Wang, Shaobo Sun, Lin Xiao, Yongpan Cao, Miao Zhang, Chunlin Huang, Jian Zhang, Hao Wu, Xiaoming Huang, Tianxiang Ning, Heng Jiang, Jian Kang, Dazhi Li, Hailong Chang, Miao Fang, Feng Liu, Adan Wu, Qingsheng Shang, Jianxuan Li, Xufeng Wang, Haibo Wang, Huibang Han, Wenping Yu, Yanmei,Xie, Zengyan Wang, Yuanxin Jia, Yanli Zhang, Ji Liang, Liying Geng, Shuzhen Jia, Hongwei Wang, Ying Zhang, Fengying Xu, Jinxin Zhuang, Chunfeng Ma, Wei Tian, Yanzhao Zhou, Suhua Liu, Han Tang, Jianhua Wang, Yi Wen, Chunmei Ge, Jinliang Hou, Yan Li, Fangni Lei, Zhong Zheng, Jinlong Zhang, Feinan Xu, Pengchen Xu, Yuan Wang, Liyun Dai, Xiaohua Hao, Ningke Hu, Zhiwei,Tian, Zhenhua Chao, Chengxian Zhao
2	Beijing Normal University (BNU)	44	Shaomin Liu, Ziwei Xu, Shengguo Gao, Yanfei Ma, Zhongli Zhu, Tongren Xu, Qishun Jiao, Fan Du, Guangchao Yang, Jie Bai, Mingjia Zhu, Zhenzhen Jia, Lei Zhang, Chen Qiao, Lv yuan Hao, Yao Tang, Lei Tan, Fen Zhang, Lu Xu, Yujie Chen, Qianyi Zhao, Anzheng Jiao, Shaojie Zhao, Yonghua Qu, Muxi Han, Donghui Xie, Tao Zhang, Juntao Yang, Jun Liu, Jiuquan Cheng, Xiaokang Kou, Xueting Chen, Ronghai Hu, Yiming Chen, Yun Li, Shuai Huang, Jing Zhao, Kai Yan, Zhonghu Jiao, Yan Wang, Yeqing Zhu, Wenchao Han, Xiaolong Liu, Yanchen Bai
3	Institute of Remote Sensing and Digital Earth (RADI), CAS	71	Qinhuo Liu, Qing Xiao, Jianguang Wen, Li Jia, Hua Li, Liangyun Liu, Bingfang Wu, Bo Zhong, Xiaozhou Xin, Hua LI, Junyong Fang, Aihong Huang, Hongyu Fan, Heshun Wang, Jingjing Peng, Dongqin You, Xiaodan Wu, Jian Yang, Kun Wang, Zhansheng Li, Haolv Shang, Jie Zhou, Zhaojie Ruan, Jinxin Yang, Yaokui Cui, Ning Wang, Nana Li, Qiting Chen, Guangcheng Hu, Chengyun Song, Junhua Bai, Le Yang, Qingmiao Ma, Jingzhao, Xin Long, Shuai Gao, Xuehui Hou, Bo Yu, Wang Li, Qiang Xing, Xueliang Feng, Liang Wu, Zengying Qi, Dong Li, Quanjun Jiao, Jianwei Gao, Zhenwang Li, Wei Yang, Zhihui Wang, Xinjie Liu, Cheng Wang, Qi Li, Shezhou Luo, Liangyun Liu, Quan Chen, Jiangyuan Zeng, Jixing Cao, Jiangfeng Yu, Shanshan Yu, Jingjun Jiao, Peng Ma, Teng teng Du, Shanlong Wu, Aixia Yang, Aihua Nie, Hang

			Zhang, Wenbo Lv, Ranyi Yuan, Zhijing Peng, Ti Zhou, Li Li, Biao Cao, Yelu Zeng
4	Beijing De Rui Zi Feng Science and Technology Co., Ltd.	1	Zhanbei Wang
5	Beijing Gene Co., Ltd.	3	Ming Hong, Shanggang Li, Jinzhu Zhang
6	Beijing Rain Root Science and Technology Co., Ltd.	11	Shengjin Shi, Yongbin Huang, Zhi Xie, Fei Ye, Ting Shu, Meng Xiao, Xiaojun Jia, Mingde Shi, Fubing Zhan, Zhendong Chen, Xiucheng Chen
7	Beijing Research Institute of Uranium Geology (BRIUG)	4	Chenkai Pei, Baochang Gong, Zhiwei Qiao, Weiwei Li
8	China Agricultural University (CAU)	5	Guanhua Huang, Xu Xu, Hang Li, Yao Jiang, Liangliang Bai
9	Computer Network Information Center (CNIC), CAS	5	Baoping Yan, Wanming Luo, Xin Ouyang, Ze Luo, Tao yang
10	Graduate University of Chinese Academy of Sciences (GUCAS)	3	Pei Leng, Jianwei Ma, Fangcheng Zhou
11	Huaihai Institute of Technology (HHIT)	4	Hongchun Peng, Bao Yang, Yanhui Li, Tiaoqiao Yang
12	Institute of Agro-resources and Regional Planning, Chinese Academy of Agricultural Sciences (CAAS)	2	Zhao Zhang, Yuling Xie
13	Institute of Arid Meteorology (IAM), CMA, Lanzhou	1	Jing Wang
14	Institute of Atmospheric Physics (IAP), CAS	5	Zhenghui Xie, Aiguo Li, Jingjing Jia, Binghao Jia, Jinbo Xie
15	Institute of Botany (IOB), CAS	2	Wentao Cai, Jihua Zhou
16	Institute of Earth Environment (IEE), CAS	3	Yi Song, Yuan Li, Weiyu Shi
17	Institute of Geographic Sciences and Natural Resources Research (IGSNRR), CAS	11	Xuefa Wen, Jingfeng Wang, Yong Ge, Renhua Zhang, Lvjun Huang, Yao Meng, Bin Yang, Dongjie Fu, Jianghao Wang, Maogui Hu, Yongzhong Liang
18	Institute of Tibetan Plateau Research (ITP), CAS	3	Kun Yang, Jun Qin, Yingying Chen
19	Lanzhou Shenlong Aviation Technology Co., Ltd.	7	Qingfu Li, Kai Li, Jing Guo, Chunsheng Gao, Jinglin Wang, Zhao Han, Jiawei Zhao
20	Lanzhou University (LZU)	8	Yan Li, Wei Zhang, Jie Tian, Jianrong Bi, Zhongming Gao,

			Zhiyuan Hu, Shanjun Cheng, Denghai Yang
21	Monash University, Australia	2	Jeffery Walker, Ying Gao
22	Nanjing Institute of Geography and Limnology (NIGLAS), CAS	3	Guiping Wu, Shulin Chen, Yuanbo Liu
23	Nanjing University of Information Science & Technology (NUIST)	6	Zhiqiu Gao, Lian Yin, Xinlong Wen, Yanjun Zhou, Bingcheng Wang, Yuanjie Zhang
24	Northeast Institute of Geography and Agroecology (NEIGAE), CAS	4	Xingming Zheng, Xiaojie Li, Yangyang Li, Jianhua Ren
25	Northwest Normal University (NWNNU)	8	Zuocheng Wang, Cunhui Dong, Fujun Meng, Hujun Jia, Yongsheng Huang, Yanxing Hu, Huidong Li, Xin Wang
26	Peking University (PKU)	12	Guoyu Qiu, Qingtao Zhang, Wenjie Fan, Xiaojian Liang, Yue Wang, Gaoxing Chen, Yuan Liu, Dacheng Wang, Yongqiang Wang, Yingying Yao, Chuankun Liu, Jie Liu
27	Qingdao Agricultural University (QAU)	2	Jianlin Wang, Debao You
28	Tongji University	5	Songlin Zhang, Xiangfeng Liu, Wen Meng, Ling Qing, Tianpeng Li
29	Tsinghua University	4	Meng Duan, Baoxiang Pan, Danwu Zhang, Hui Lu
30	University of Electronic Science and Technology of China (UESTC)	15	Binbin He, Shihua Li, Ji Zhou, Xin Luo, Ying Zhang, Ling Quan, Li Peng, Hongshu Wang, Guiyun Zhou, Mingsong Li, Fengnan Dai, Guoquan Li, Huailan Zhang, Shuai Cao, Xiaodong Zhang
31	Zhong Fei General Aviation Company (CFGAC), Chinese Flight Test Establishment	5	Gang Chen, Zhixiang Liu, Xia Yang, Haitao Zhang, Xuecheng Yan, Yi Yang

Table 2 Chinese Scientific Steering Committee members of HiWATER

Name	Affiliation
Prof. Guodong Cheng	Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI), Chinese Academy of Sciences (CAS)
Prof. Xiaowen Li	Beijing Normal University (BNU)
Prof. Congbin Fu	Atmosphere Physics Institute, CAS
Prof. Daren Lv	Atmosphere Physics Institute, CAS
Prof. Qingxi Tong	Institute of Remote Sensing and Digital Earth (RADI), CAS
Prof. Huadong Guo	Institute of Remote Sensing and Digital Earth (RADI), CAS
Prof. Yaqiu Jin	Fudan University
Prof. Bojie Fu	Research Center for Eco-Environmental Sciences, CAS
Prof. Changqing Song	National Natural Science Foundation of China (NSFC)
Prof. Renguo Feng	Bureau of Science and Technology for Development of CAS
Dr. Jiahong Li	National Remote Sensing Center of China (NRSCC), Ministry of Science and Technology of China (MOST)
Prof. Shuying Leng	NSFC
Prof. Tieqing Huang	Northeast Institute of Geography and Agroecology (NEIGAE), CAS
Prof. Jiemin Wang	CAREERI, CAS
Prof. Ersi Kang	CAREERI, CAS
Prof. Renhua Zhang	Institute of Geographic Sciences and Natural Resources Research (IGSNRR), CAS
Prof. Zengyuan Li	Institute of Forest Resource Information Techniques (IFRIT), Chinese Academy of Forestry
Prof. Baoping Yan	Computer Network Information Center (CNIC), CAS
Prof. Chuanrong Li	Academy of Opto-Electronics (AOE), CAS
Prof. Honglang Xiao	Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI), Chinese Academy of Sciences (CAS)
Prof. Xiubin Li	Institute of Geographic Sciences and Natural Resources Research (IGSNRR), CAS
Prof. Jingming Chen	Nanjing University
Prof. Jiancheng Shi	Institute of Remote Sensing and Digital Earth (RADI), CAS
Prof. Shunlin Liang	Beijing Normal University (BNU)
Prof. Kun Yang	Institute of Tibetan Plateau Research (ITP), CAS
Dr. Tao Zhao	Bureau of Science and Technology for Development of CAS