





团队成员 / Team Members:



王小丹  
Wang Xiaodan

中国科学院水利部成都山地灾害与环境研究所  
主要贡献：项目总体设计。提出了生态安全屏障构建技术体系，开展了生态恢复关键技术研发与示范，组织完成了国家重大生态工程监测、评估与后续工程优化。

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences  
Dr. Wang formulated the overall planning of the project. Besides the systematic technology of the ecological security barrier, his innovative technology of the ecological restoration has been used on the demonstration construction. He also led to complete the national key ecological construction monitoring, survey and optimization of the follow-up projects.



程根伟  
Cheng Genwei

中国科学院水利部成都山地灾害与环境研究所  
主要贡献：项目总体设计。发展了冻土区分布式水文模型，解决了冻融作用下水文过程模拟难题，完成了主要生态系统水源涵养能力评估。

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences  
Dr. Cheng formulated the overall planning of the project. He developed the distributed hydrological model in the permafrost region. The difficulty on the hydrology process simulation under the freeze-thaw has been solved by the model. He completed the evaluation on the water conservation capability.



刘伟龙  
Liu Weilong

中国科学院水利部成都山地灾害与环境研究所  
主要贡献：查明了主要生态工程实施进展，评估了自然保护区、重要生态功能区和生态敏感区生态保护成效。

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences  
Dr. Liu illustrated the progress of the key ecological construction. He also evaluated the effectiveness of ecological protection on the nature reserves, the key ecological function regions and the ecological sensitive areas.



朱立平  
Zhu Liping

中国科学院青藏高原研究所  
主要贡献：开展了气象、冰川、湖泊、林线、草地生态系统等联网监测与变化原因分析，完成了各生态安全屏障区生态功能动态评估。

Institute of Tibetan Plateau Research, Chinese Academy of Sciences  
Dr. Zhu organized the network monitoring for the changes of climatic factors, glaciers, lakes, tree lines and grassland ecosystem, and performed their variation reasons analyses. He completed the dynamic evaluation of ecological functions in the ecological safety barrier regions.



张宪洲  
Zhang Xianzhou

中国科学院地理科学与资源研究所  
主要贡献：定量识别了气候变化和人类活动对高寒生态系统的影响，完成了西藏天然林保护和退牧还草工程实施成效监测与评估。

Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences  
Dr. Zhang quantitatively explained the effect of the climate change and human activities on the alpine ecosystem. And, he evaluated the effectiveness of construction on the natural forest protection area and returning cropping land to forage land area.



张天华  
Zhang Tianhua

西藏自治区环境科学研究所  
主要贡献：有效整合了西藏生态监测资源，规范了生态监测指标与方法，重点推进了生态监测网络与生态安全屏障信息系统业务化运行。

Institute of Environment Sciences of Tibet Autonomous Region  
Prof. Zhang integrated the ecological monitoring sources in Tibet and standardized the index and methods on the ecological monitoring. He also improved the ecological monitoring network and promoted the ecological security barrier information system.



吴建波  
Wu Jianbo

中国科学院水利部成都山地灾害与环境研究所  
主要贡献：系统开展了主要生态工程区内外对照研究，提出了生态工程规模与布局优化的技术途径。

Institute of Mountain Hazards and Environment, Chinese Academy of Science  
Dr. Wu systematically studied the difference between the internal and external of main Tibetan Eco-security Barrier project area, and put forward the techniques for optimizing the scale and layout of ecological projects.



洪江涛  
Hong Jiaotao

中国科学院水利部成都山地灾害与环境研究所  
主要贡献：阐明紫花针茅群落氮磷植物元素库在降水梯度上解耦作用，揭示低磷环境下高寒植物生殖优先的进化权衡适应策略。

Institute of Mountain Hazard and Environment, Chinese Academy of Sciences  
Dr. Hong illustrated precipitation decoupled the N and P pools of the S. purpurea community along the moisture gradient, and drew out an evolutionary equilibrium strategy of priority for reproductive in alpine plants under low phosphorus conditions.



黄麟  
Huang Lin

中国科学院地理科学与资源研究所  
主要贡献：研发高原生态系统关键指标长时间序列信息的获取技术，揭示了近20年来高寒生态系统变化趋势与驱动力。

Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences  
Dr. Huang developed the acquisition technology of the long-term information on the key index in the alpine ecosystem. She revealed the trend and driving force of the alpine ecosystem over the past 20 years.



鄢燕  
Yan Yan

中国科学院水利部成都山地灾害与环境研究所  
主要贡献：开展了天然草地保护工程的系统调查与研究，揭示了围栏封育对种间竞争、生物量、多样性和固碳的影响机制。

Institute of Mountain Hazard and Environment, Chinese Academy of Sciences  
Dr. Yan investigated the effectiveness of natural grassland protection project and found the possible influence of fence enclosure on species competition, biomass, biodiversity, and carbon sequestration.