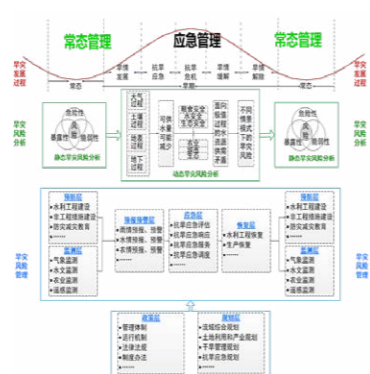


## 基础类成果

# 中国水旱灾害风险管理战略研究



# STRATEGIC RESEARCH OF FLOOD AND DROUGHT DISASTER RISK MANAGEMENT IN CHINA

### 【创新性】

首次提出了水旱灾害兼具自然属性和社会属性双重属性的理论，形成了水旱灾害风险管理研究方法体系；首次建立了水旱灾害未来预见情景分析理论、方法与模型，预测了太湖流域 2030 年、2050 年不同气候与社会经济情景下的洪水风险，提出了适应性对策措施建议；建立了基于风险分析的结构化水旱灾害风险管理规划方法；构建了洪水干旱风险管理战略框架，提出了工程与非工程措施相结合、常态与应急管理相结合，适度承受风险，支撑全面、协调、可持续发展的洪水干旱风险综合管理总体战略。

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### 【影响力】

为“防洪抗旱两个转变”思路的形成提供了理论依据，促进了科学合理并较快地提高我国防汛抗旱能力；为防洪抗旱预案、洪水影响评价、全国防洪规划、全国抗旱规划、全国蓄滞洪区建设管理规划、防洪标准、干旱灾害等级标准、区域旱情等级标准等规章、制度、规划与标准的制定提供了支撑；推动了全国山洪灾害防治、洪水风险图编制、抗旱规划实施、抗旱服务组织建设等相关防洪抗旱工作的开展。获国家科技进步二等奖 1 项，亚行和财政部颁发的杰出成就奖 2 项。

### 【Innovation】

It initially put forward a theory that flood and drought disasters possess both natural and social attributes, and shaped a research method system for the risk management of flood and drought disasters; established theories, methods and models for the scenario analysis of flood and drought disasters for the first time, predicted flood risks of the Taihu Lake Basin in 2030 and 2050 under different climate and socio-economic scenarios, and proposed adaptation strategies, measures and suggestions; developed structural flood and drought disaster risk management and planning methods based on risk analysis; built a strategic framework for flood and drought risk management, and came up with an overall strategy for the comprehensive management of flood and drought risks, which combines structural and non-structural measures as well as normal and emergency management, moderately bears risks, and props up all-around, coordinated and sustainable development.

### 【Influence】

The project has provided a theoretical basis for the formation of "two shifts on the flood control and drought relief", and promoted the improvement of the flood control and drought relief capability in China in a scientific, reasonable and fast way; provided the support for the formulation of regulations, systems, plans and standards, such as flood control and drought relief plans, flood impact evaluation, national flood control planning, national drought relief planning, national planning on the construction and management of flood storage and detention zones, flood control standard, drought disaster grade standards, regional drought grade standard, etc.; advanced the relevant flood control and drought relief work, such as national mountain flood disaster prevention and control, flood hazard mapping, implementation of drought relief plans, drought relief service organization and construction, etc.; won a second prize of the National Science and Technology Progress Award as well as two outstanding achievement awards respectively granted by the Asian Development Bank and the Ministry of Finance.

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