

姓名：刘懿

联系方式：

Email: liuyihhdx@126.com

电话: 15295521105

QQ: 951079301

**主要研究方向：流域水循环过程模拟，水旱灾害监测、评估与预测**

单 位：河海大学水文水资源学院

职称职务：副教授/副系主任

专 业：水文学及水资源

学位学历：博士/研究生

访学经历：美国俄克拉荷马大学/美国国家天气中心



### 主持及参与主要科研项目：

- 1、十三五国家重点研发计划“国家山洪灾害风险预警服务平台关键技术研发与应用”01课题03专题“山洪灾害小流域下垫面关键参数智能辨识量化”，2020-2022（主持）
- 2、国家自然科学基金青年基金，流域骤发性干旱形成机制与定量评估方法研究，2019-2021（主持）
- 3、国家发改委中国清洁生产机制中心项目，长三角应对极端气候事件技术体系研究，2017-2019（参与）
- 4、江苏省自然科学基金,2018-2021（主持）
- 5、十三五国家重点研发计划“陆地水循环演变及其在全球变化中的作用研究”课题“全球变化背景下陆地水文极端事件演变及趋势预测”，2016-2020（参与）
- 6、国家自然科学基金面上基金，气候变化背景下赣江流域径流演变的植被动力学机制研究，2018-2021（参与）
- 7、国家自然科学基金面上基金，气候变化背景下黄河流域干旱情景预估与响应机制研究，2016-2019（参与）
- 8、中国博士后基金，变化环境下流域气象-水文干旱传递机理及响应机制，2017-2019（主持）
- 9、江苏省博士后基金面上项目A类资助，2018-2019（主持）

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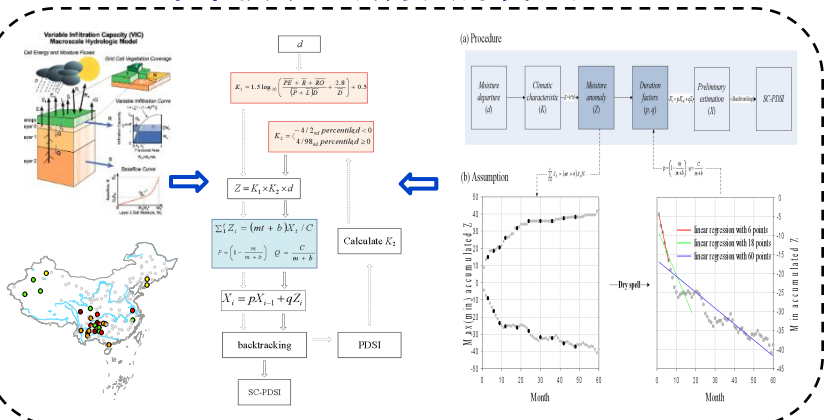


# 研究内容介绍

以**水旱灾害**为研究对象，结合模型模拟、卫星监测及密集数据挖掘多种技术，开展**灾害评估方法**的研发与应用、**洪旱灾害传递及致灾机理探索**、**特大洪旱灾害事件卫星遥感监测**、**灾情海量数据规律分析**等多项研究。

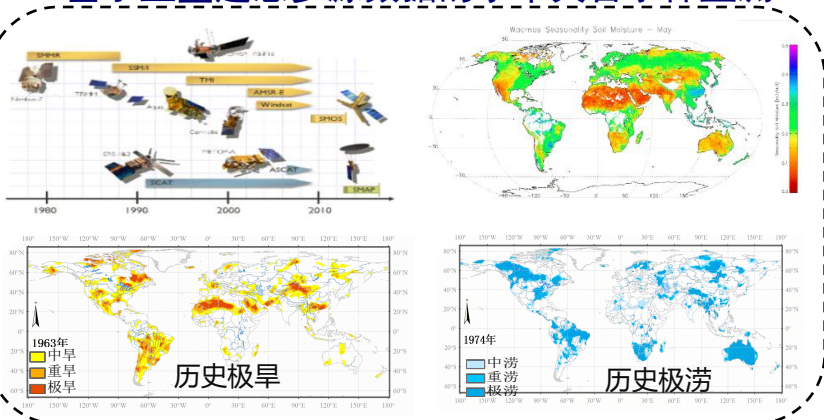
## 干旱模拟监测方法开发及应用

方法开发



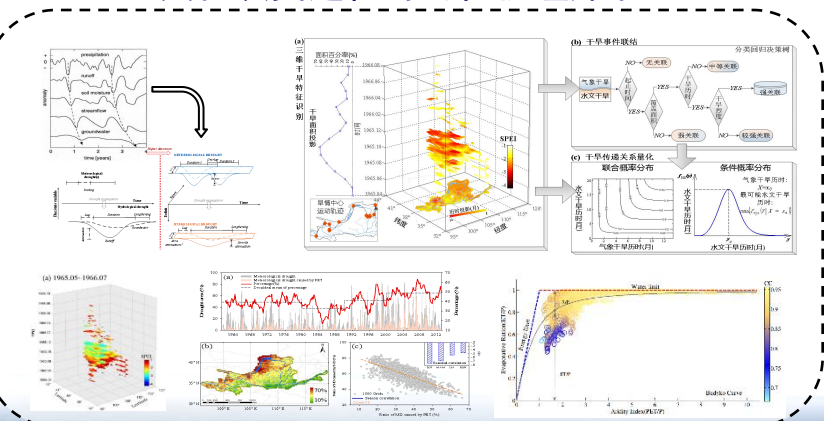
## 基于卫星遥感多源数据的水旱灾害事件监测

卫星监测



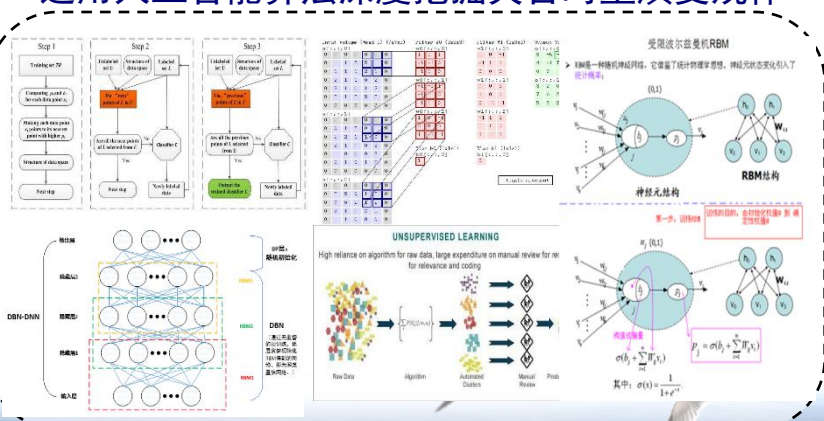
## 灾害演变过程的内在机理探索

机理探索



## 运用人工智能算法深度挖掘灾害时空演变规律

人工智能



# 研究成果与学术交流

## 学术论文

发表学术论文40余篇，其中SCI30余篇，超过90%SCI为二区以上，平均影响因子3.65，包含GRL、JGR、JHM、JH等水文气象领域权威期刊（详见附件）。



## 获得奖励

研究成果“变化环境下关键水文情势演变过程与机理”——联合获得教育部自然科学奖二等奖



## 国际合作与学术交流

### 密切合作的水文领域国际知名教授



### 参加的学术交流会议及项目会议



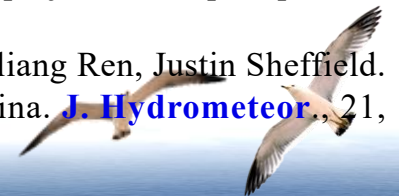


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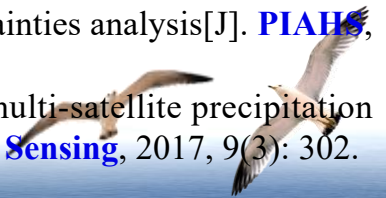
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王孟浩, 江善虎, 任立良, **刘懿**, 陆玉洁, 钟锋. 气候变化和人类活动对水文干旱影响的综合评估方法、装置及系统.(公开号:CN109472004A)

