

# 广西环江县科技扶贫 研究与示范

## 成果简介:

中国科学院亚热带农业生态研究所广西环江县科技扶贫研究与示范研究团队针对西南喀斯特连片特困地区生态环境脆弱、人地矛盾突出、产业缺乏及经济落后等问题，依托环江喀斯特生态系统观测研究站，在广西区环江县开展生态移民－异地扶贫、岩溶山区植被复合经营和特色生态衍生产业培育研究与示范，取得了良好的生态、经济、社会效益，同时建立环江喀斯特生态系统国家研究平台与国内领先的喀斯特生态恢复研究团队，相关成果得到了国务院扶贫办、水利部、国家林业局、广西区政府等高度评价，为西南喀斯特区扶贫开发工作和石漠化治理提供了科学依据和技术支撑。

## Introduction:

Aiming at the fragile ecological environment, prominent human-land contradiction, lacking of industry, and economic backwardness in karst region, southwest China, the team composed by Institute of Subtropical Agriculture, Chinese Academy of Sciences, carried out the research and demonstration on ecological emigration and poverty alleviates, recovery & comprehensive management on degradation vegetation and ecological industry cultivation in Huanjiang Maonan Autonomous County, Guangxi Zhuang Autonomous Region, based on Huanjiang observation and research station for karst ecosystem, Chinese Academy of Sciences. These efforts have obtained the great benefits of ecology, society, and economy. Meanwhile, they also established national platform for karst ecosystem research and one leading research team of karst ecological restoration in China. These achievements received the awards from the State Council Leading Group Office of Poverty Alleviation and Development, the Ministry of Water Resources, State Forestry Administration of PR China, and the government sectors of the Guangxi Zhuang Autonomous Region, which also provided scientific and technical supports for the poverty alleviation & development and effective controlling on rocky desertification in karst region, Southwest China.



曾馥平及团队下基层开展技术指导  
Zeng Fuping and his team carried on technical guidance in countryside



移民迁入示范区  
Demonstration region of local emigration

# Research and Demonstration on Alleviates Poverty Through Sciences and Technologies in Huanjiang Maonan Autonomous County, Guangxi Zhuang Autonomous Region, China

## 推荐单位 / Recommended Units

中国科学院亚热带农业生态研究所  
Institute of Subtropical Agriculture, Chinese Academy of Sciences

## 完成单位 / Accomplished Units

中国科学院亚热带农业生态研究所  
Institute of Subtropical Agriculture, Chinese Academy of Sciences

## 合作单位 / The Main Cooperation Units

广西壮族自治区环江毛南族自治县扶贫办  
Poverty Alleviation and Development Office of Huanjiang Maonan Autonomous County, Guangxi Zhuang Autonomous Region, China  
广西壮族自治区环江毛南族自治县科技局  
Science and Technology Bureau of Huanjiang Maonan Autonomous County, Guangxi Zhuang Autonomous Region, China

## 社会效益和经济效益:

环江县肯福移民异地安置扶贫开发模式为广西区 40 万生态移民提供了重要借鉴，该模式被联合国教科文组织称为“肯福”模式。针对脆弱岩溶环境开展的“林下种草与发展肉牛”生态恢复治理模式被国家发改委作为喀斯特山区产业发展的典型案例和石漠化治理的典型样板。通过积极发展特色生态产业，近 3 年创总产值达 34740 万元，使示范区农民人均收入从 1993 年的不足 300 元，提高至目前 8000 余元。相关成果被中央电视台、人民日报、光明日报等报道，国务院扶贫办、中科院和广西区党委联合主办曾馥平同志扶贫先进事迹主题情景报告会，在社会各界引起了很大反响。

## Economic and Social Benefits:

The models of poverty alleviation in Kenfu village Huanjiang County provided an important demonstration for 400,000 ecological immigrants in Guangxi Zhuang Autonomous Region. This mode is called “KenFu” mode by United Nations Educational Scientific and Cultural Organization (UNESCO). The ecological restoration and management models of planting grass under the trees and feeding beef cattle based on fragile karst environment were regarded as typical samples for industrial development in karst mountain region and rocky desertification controlling by National Development and Reform Commission, China. By aiding on developing local ecological industries, 347.4 million RMB was obtained during the recent three years. The income (per person in one year) of farmer in demonstration area raised from 300 RMB in 1993 to 8000 RMB in 2016. These achievements have been reported by China Central Television, People's Daily and Guangming Daily, etc. The reporting meeting about Zeng Fuping's advanced deeds jointly sponsored by State Council Leading Group Office of Poverty Alleviation and Development, Chinese Academy of Sciences, and the Party Committee of Guangxi Zhuang Autonomous Region, aroused strong repercussions in China.



曾馥平同志先进事迹主题情景报告会  
Reporting meeting about Zeng Fuping's advanced deeds



移民迁入示范区  
Demonstration region of local migration



团队成员 / Team Members:



曾馥平  
Zeng Fuping

中国科学院亚热带农业生态研究所  
主要贡献：从事科技扶贫工作20余年，制定了环江县生态移民、异地扶贫开发规划，为环江县石漠化治理和扶贫产业发展等做出了重大贡献。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He has spent over 20 years on the poverty alleviation through sciences and technologies and designed the planning on ecological migration and poverty alleviation in Huanjiang Maonan Autonomous County. These works provided a great contribution on controlling rocky desertification and developing industry.



王克林  
Wang Kelin

中国科学院亚热带农业生态研究所  
主要贡献：揭示人类干扰下喀斯特区域生态退化原因，提出了贫困区域适应性生态修复模式。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He revealed the mechanism of ecological degradation in karst region under human disturbance, and proposed the adaptive ecological restoration modes in karst area.



苏以荣  
Su Yirong

中国科学院亚热带农业生态研究所  
主要贡献：参与生态移民规划，研发土壤质量恢复与作物营养调控技术。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He designed the planning of ecological migration and poverty alleviation, and developed the technologies of soil quality recovery and crop nutrition controlling.



宋同清  
Song Tongqing

中国科学院亚热带农业生态研究所  
主要贡献：研发植被复合经营和生态衍生产业培育技术。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He developed the technologies of vegetation comprehensive management and ecological industry.



张 浩  
Zhang Hao

中国科学院亚热带农业生态研究所  
主要贡献：参与岩溶生态环境治理与生态产业培育。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He participated in ecological environment improving and ecological industry developing.



陈洪松  
Chen Hongsong

中国科学院亚热带农业生态研究所  
主要贡献：研发喀斯特地区水土保持综合治理与水土资源科学利用技术。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He developed the comprehensive technologies of soil & water conservation and scientific utilization of soil & water resources in karst region.



彭晚霞  
Peng Wanxia

中国科学院亚热带农业生态研究所  
主要贡献：参与农村生态环境综合治理及可持续产业培育。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
She participated in rural ecological environment improving and sustainable industry developing.



杜 虎  
Du Hu

中国科学院亚热带农业生态研究所  
主要贡献：参与植被复合经营技术与模式研发。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He participated in comprehensive technologies of vegetation management and modes developing.



曾昭霞  
Zeng Zhaoxia

中国科学院亚热带农业生态研究所  
主要贡献：参与草食畜牧业种养技术研发。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
She participated in farming & feeding technology of herbivorous animal industry.



何寻阳  
He Xunyang

中国科学院亚热带农业生态研究所  
主要贡献：研发喀斯特地区适生中草药及高值经济林木技术。

Institute of Subtropical Agriculture, Chinese Academy of Sciences  
He developed the comprehensive technologies of Chinese medicinal herb and high value economic trees in karst region.