

# Climate Change Modeling & Adaptation



## Section Goal

- Contribute significantly in establishing ICBA as a center of global scientific excellence through the development of new insight into the possible impacts of climate change on water and food security, particularly in areas that are currently or likely to become marginal

## Key Objectives

- Develop and undertake climate change downscaling activities for regions of interest to quantify predicted variations to the baseline average conditions
- Through modeling, give quantitative and qualitative insight into the impacts of climate change on various dynamics of the water budget, including likely changing needs in irrigation
- Understand the nature and characteristics of current and future droughts, their impacts on water and food security, and develop mitigation plans
- Developing scientific insight into saline and drought tolerant crops for food, fodder, fuel and fiber that can be used as part of climate change adaptation plans
- Identify areas that are likely to be vulnerable to future climate change conditions and work with other ICBA Sections and decision-makers on developing adaptation strategies, management and investment plans and policies, for the new environmental conditions
- Ensure ICBA's climate change modeling and adaptation research findings reach a broad range of end-users from fellow scientists, through decision-makers to implementers

