

## Collaboration in Action

Nov 2018: Mangrove Symposium  
(Monitoring and Management  
Working Groups at RBNERR)

2019: Hurricane Mapping from  
Satellite Imagery (RBNERR  
Science Catalyst)

2019: Ecosystem Services  
Conceptual Modeling (Science  
Catalyst)

2019: JBNERR and RBNERR Joint  
Science Capacity Exchange Visits

2020-2023: Mangrove Coast  
Science Collaborative (JBNERR &  
RBNERR)

# The Mangrove Coast Collaborative (MCC) combines mapping technology, condition assessments, stakeholder input, and decision science to help tropical reserves thrive under enhanced storm conditions.

Mangrove forests have adapted to storm events through a cycle of mortality and regeneration. Yet the extent of loss and recovery is highly variable and depends on multiple factors, e.g., disturbance intensity & land-use legacies. The MCC will work with Jobos and Rookery Bay NERRs to enhance resilience and decision-making.



Storm damage and recovery maps derived from satellite imagery will identify areas of greatest vulnerability across both reserves



On-the-ground assessments of mangrove condition will identify key drivers of chronic stress for each reserve



Community assessments of ecosystem services will provide a socio-economic context for the function of robust mangroves



Resource managers will guide the creation of a decision-making framework to translate natural and social science into actions

