Public Workshop on Hypoxia in the Gulf of Mexico

October 19, 2015
LITE Center, University of Louisiana at Lafayette

Sponsored by

Louisiana Hypoxia Working Group





Institute for Coastal and Water Research



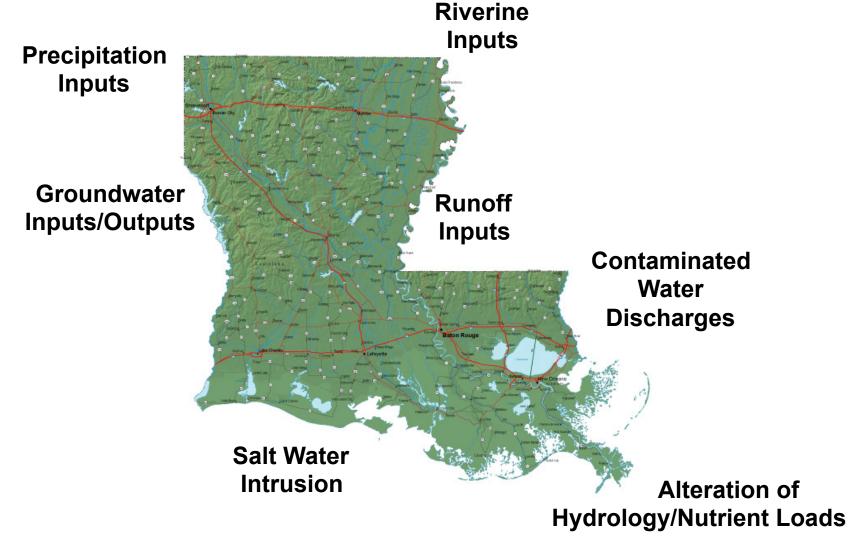
Institute for Coastal and Water Research (ICaWR)

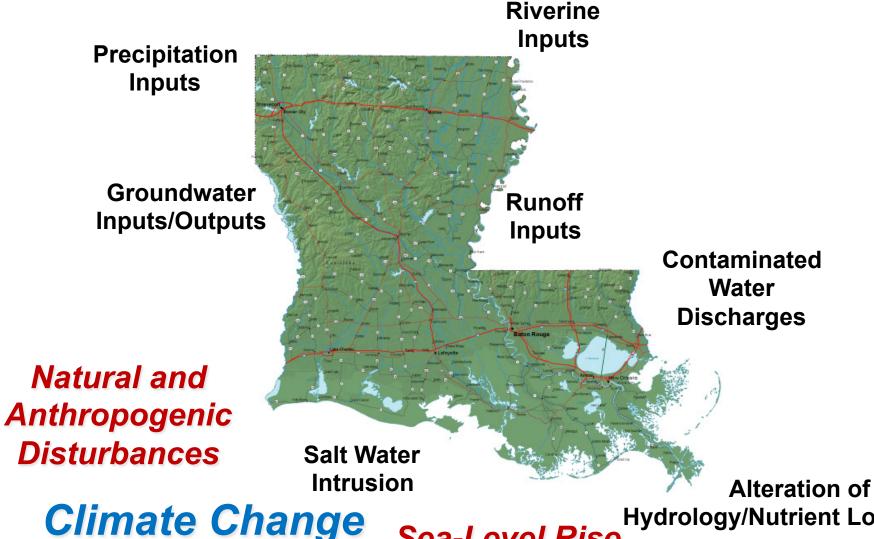
- Formed in 2015
 - Restructuring of ICEE
 - Redefined mission and vision to better align with pressing environmental and social issues
- Mission "to improve understanding and management of coastal and water resources at current and future land/sea interfaces and their interactions with society"



Central organization at the University for research activity and synergy in coastal and water resources

- Improve the knowledge base for sustainable coastal restoration, water management, and policy
- Facilitate multidisciplinary research collaborations across University Departments, Schools, and Colleges
- Partner with State and Federal agencies, nonprofit organizations, the private sector, and other academic entities to identify and resolve complex coastal and water resource uncertainties





Sea-Level Rise

Hydrology/Nutrient Loads

- Research faculty from six Departments/Schools
 - Biology
 - Geosciences
 - Civil Engineering
 - Mathematics
 - Architecture and Design
 - Sociology, Anthropology & Child and Family Studies

- In addition to research facilities on campus
 - Ecology Center
 - Research-support facility nested under ICaWR
 - 50 acres for research, outdoor classroom
 - Large greenhouse complex
 - Wide range of research vessels and field vehicles
 - Cade Farm
 - Affiliated field research facility
 - Aquaculture and farming legacy
 - Tidal research wetlands





The Ecology Center

Facilities

Greenhouses, irrigated research plots, offices, laboratories, classroom, computing, kitchen, dormitory, boats, research equipment, and more















Ecology Center: Microphysics of Rainfall Research Project

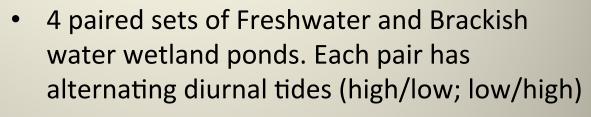
- Dense cluster of state-of-the-art rainfall sensors
- Microphysical properties of raindrop size distribution
- Unique data on small-scale variability of rainfall parameters
- Valuable for hydrologic research on remote sensing of rainfall





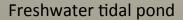


Coastal Wetlands Laboratory (Cade Farm)



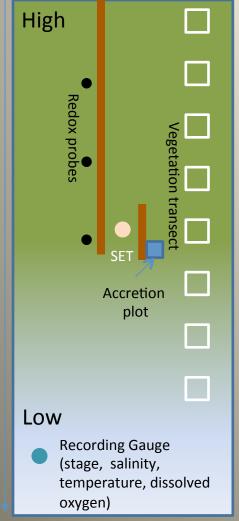
- Monitoring design based on layout of Coastwide Reference Monitoring System
- Allows students to learn about wetland measurements and processes 20 minutes from the main campus







Students installing water-level gauge



23 m Pond Design





Summary

- University of Louisiana at Lafayette has tremendous research strength in coastal and water resources
- Facility capabilities and faculty expertise to conduct world class research on pressing issues relevant to the environment and society
- Training the next generation of scientists, policy makers, and managers for improved stewardship of coastal ecosystems and water resources
- Competitive ICaWR Doctoral Fellowships available

