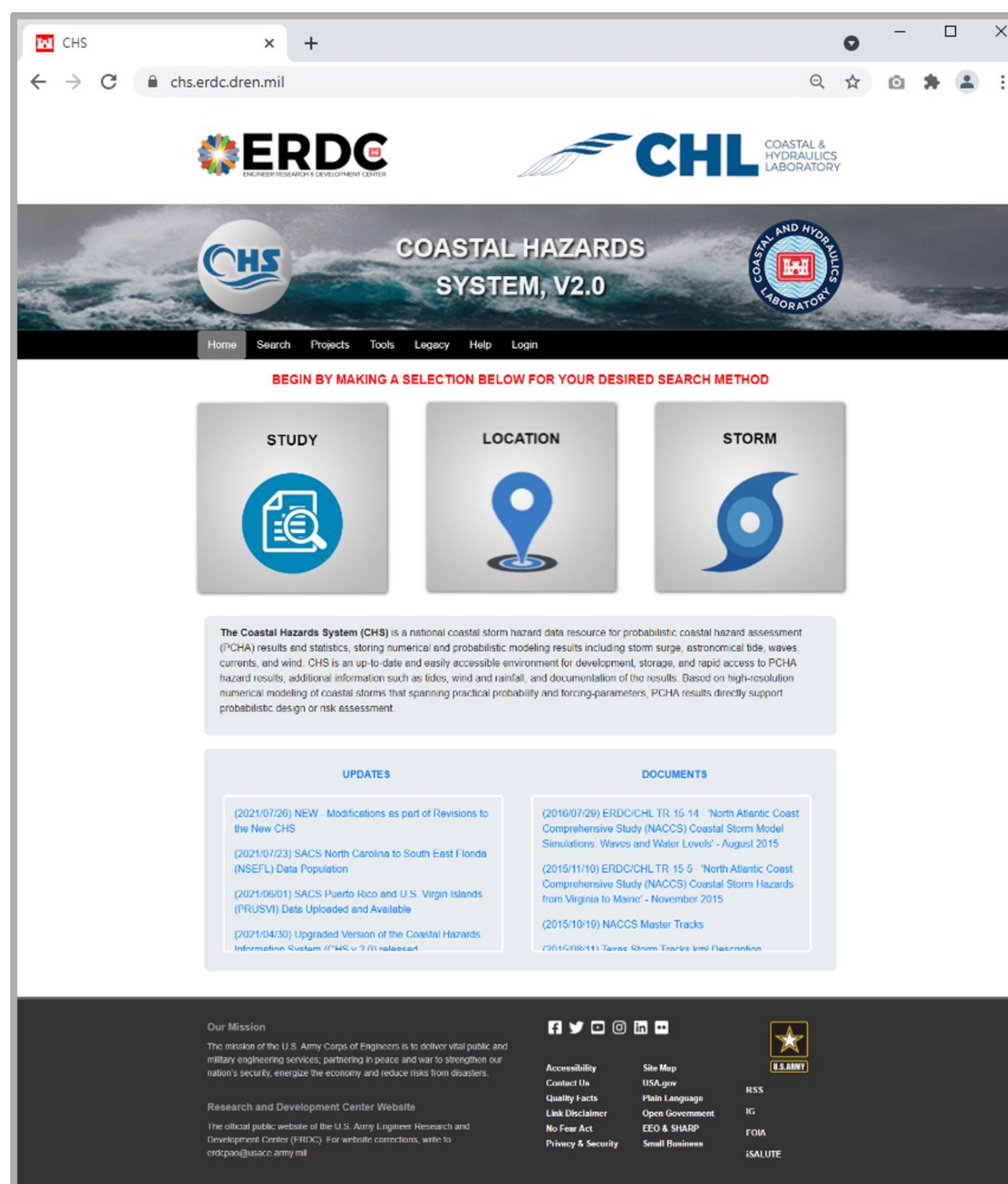
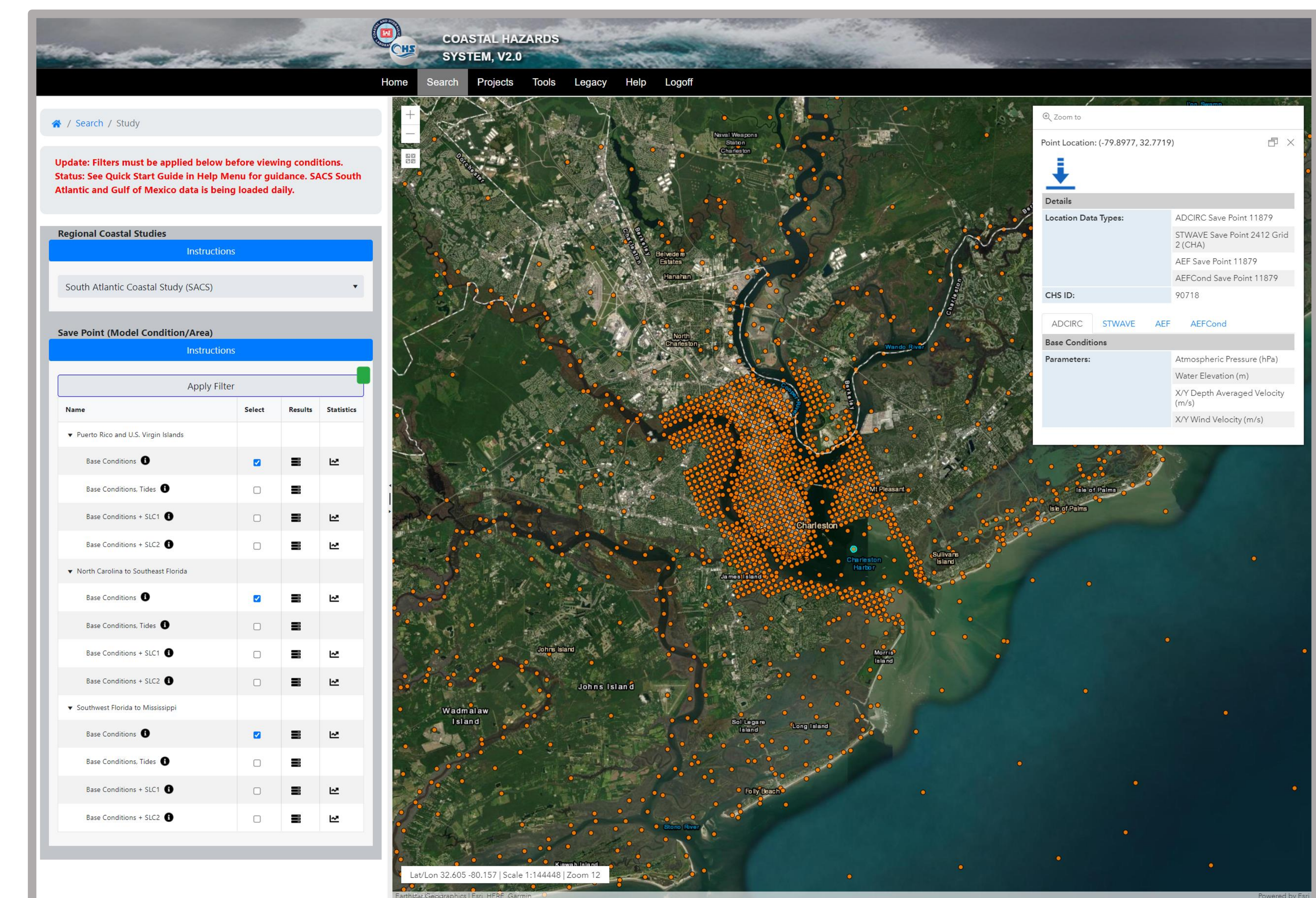
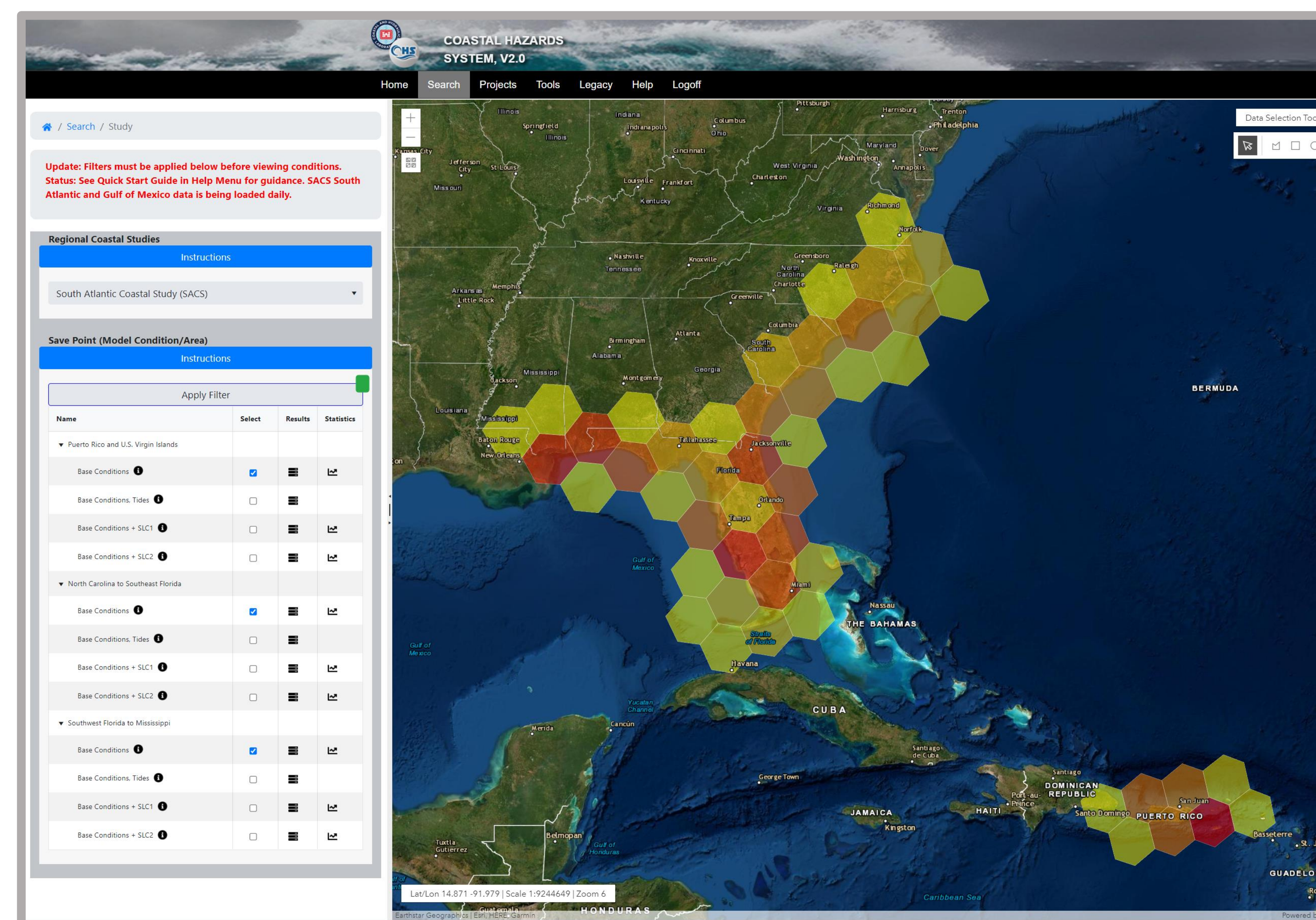
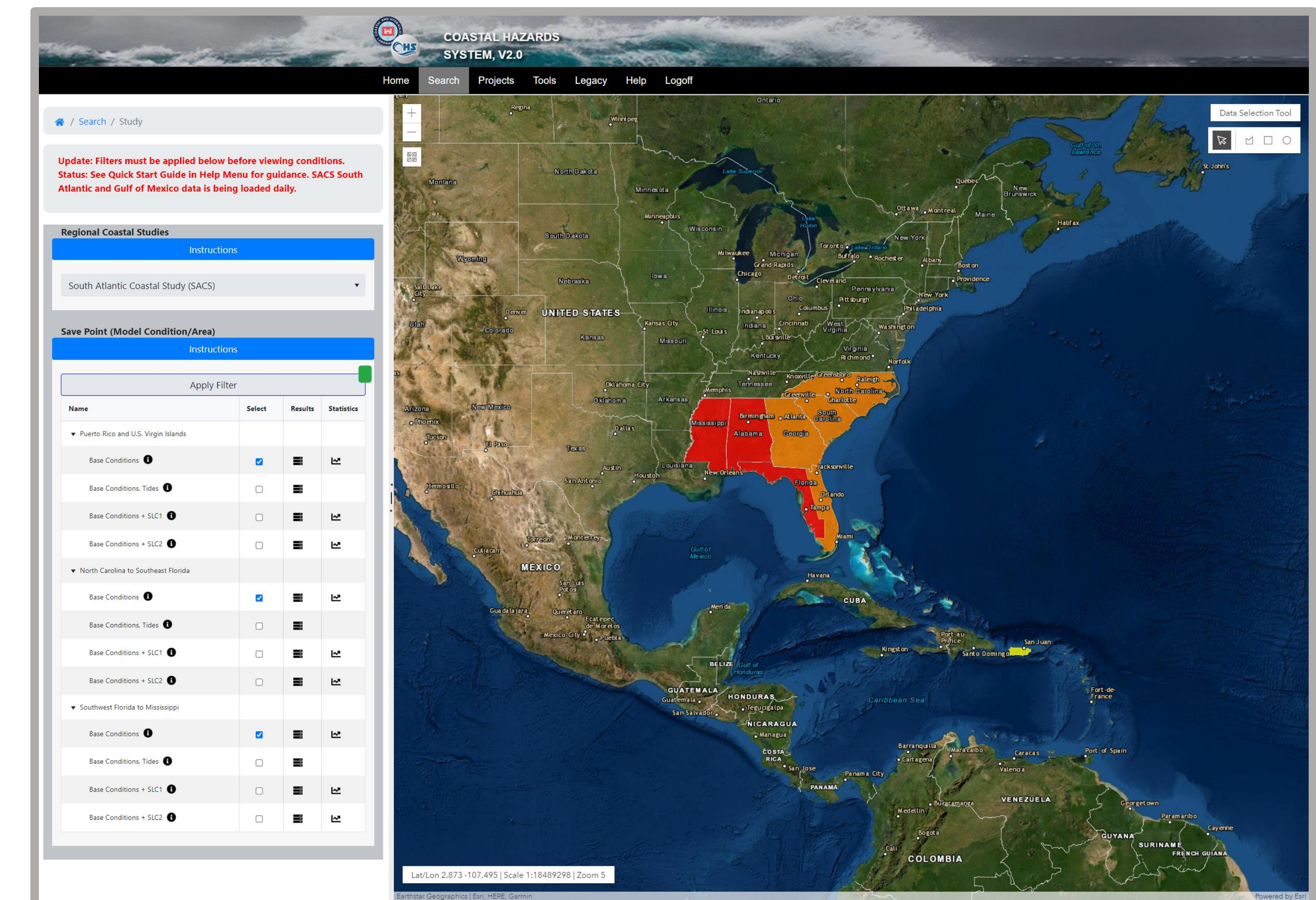
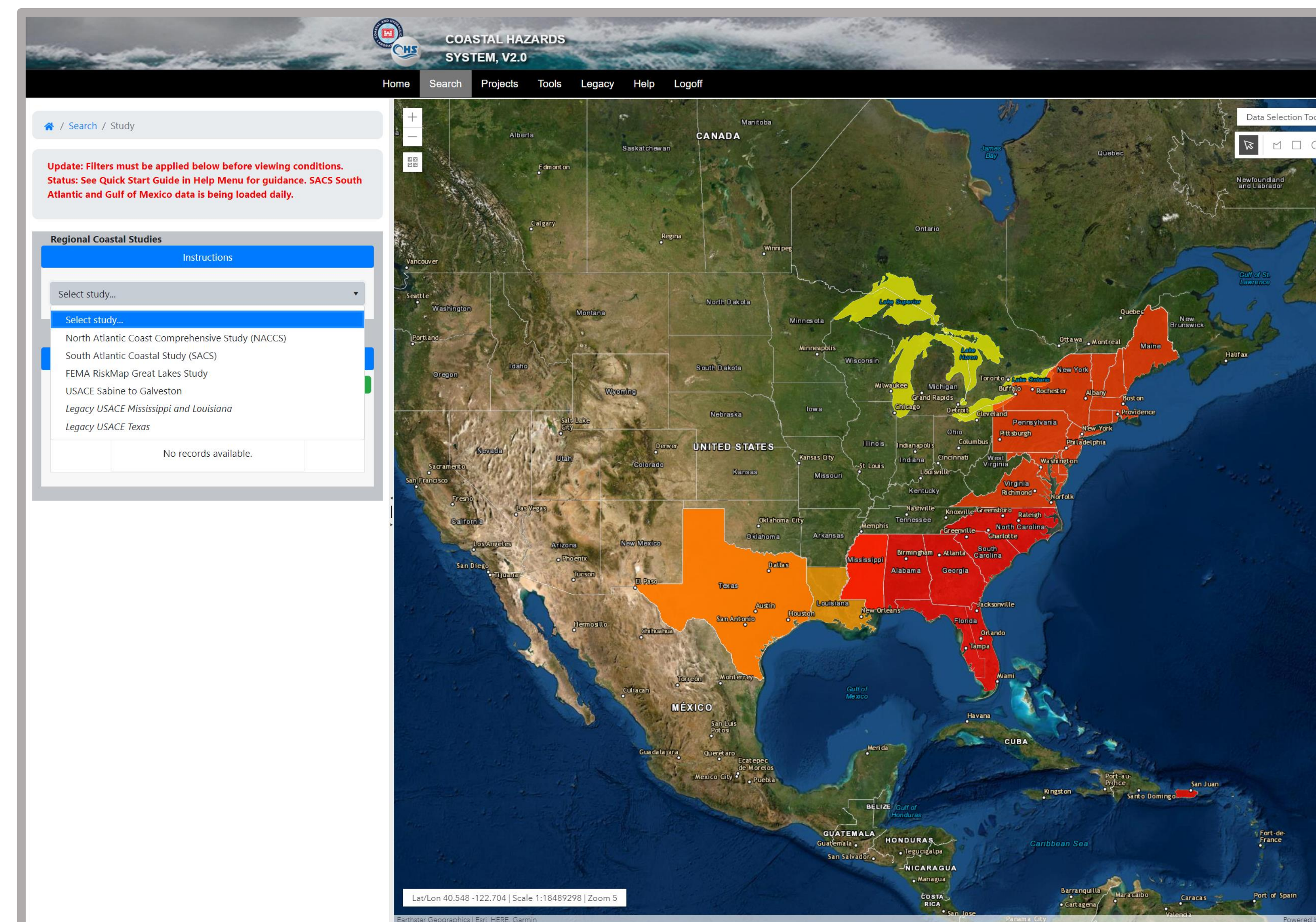


# Coastal Hazards System



The Coastal Hazards System (CHS) is a national effort for quantification of coastal hazards induced by hurricanes and other extreme storms, such as storm surge, waves, currents, and wind. The foundation of the CHS is its probabilistic coastal hazard analysis (PCHA) framework. The CHS also provides an industry-standard database and easily accessible environment for development, storage, and rapid access to PCHA results, additional information such as tides and rainfall, and metadata. A user-friendly web interface provides easy access, mining, plotting, and downloading of hydrodynamic model and probabilistic results for historic and synthetic coastal storms for most U.S. coastlines.



## Need Behind CHS

Flood and wind damage from coastal storms have resulted in billions of dollars in damage for United States coastlines in recent decades. Federal agencies and partners need accurate and comprehensive coastal storm hazard information to support planning, engineering design, and emergency management operations. The hazard estimates also need to include a complete description of uncertainty for use in risk assessments.

## Benefits of CHS

The CHS provides comprehensive coastal data and the associated uncertainties in easily ingestible standardized formats producing great potential for monetary savings as well as improved understanding of the complex processes by Federal, State, and local governments and the public at large. Based on high-resolution hydrodynamic modeling of coastal storms that span practical and physical probability spaces, the PCHA results in CHS directly support risk assessment and engineering design.

<https://chs.erdcdren.mil>

Contact: [CoastalHazardsGroup@erdcdren.mil](mailto:CoastalHazardsGroup@erdcdren.mil)