Field Work and Hyperspectral Data Collection for Wetland Mapping

NCRST-E has developed technical outreach projects with several state transportation agencies. One such project is in Randolph County, North Carolina. High resolution hyperspectral image data and high resolution LIDAR data were collected in an area located between Ashboro and High Point, North Carolina in the Deep River Watershed.

Image data was collected at 0.6m and 1m resolution by ITRES Research Limited using the CASI-II. The image data was corrected for atmospheric conditions and geocorrected to NAD83, North Carolina State Plane grid in meters.

This poster presents the preliminary image data and photos of classification training sites acquired by NCRST-E to determine the utility of such data for the preliminary identification of areas that have a high likelihood of being wetlands. Methods of data synthesis, fusion analysis, and comparison using geospatial and remote sensing technologies were developed to provide a surrogate process that closely approximates the date determinations made as part of conventional field wetland assessments.

CONTACT INFORMATION:

Dr. Roger L. King  
NCRST-E Consortium Director  
(662) 323-2189  
rking@ece.msstate.edu

Dr. Charles O'Hara  
NCRST-E Consortium Coordinator  
(662) 323-2067  
coghara@ece.msstate.edu