

Research

- *Collection of Digital Imagery in Support of Aquatic Invasive Species Program and CERP*
Sponsor: U.S. Army Corps of Engineers, \$100,000, 2011-2012. CESU Agreement W912HZ-10-2-0032.
- *Development of a Geospatial Soil-Crop Inference Engine for Smallholder Farmers:*
Sponsor: National Science Foundation. \$300,000. 2011-2013.
- *Development of an Unmanned Autonomous Vehicle for Wildlife and Ecological Research.*
Sponsor: The US Army Corps of Engineers. \$330,000. 2006-Present.
- *Development of the IFAS Vegetation Mobile Mapping System for Natural Resources, Agriculture, and Water Quality Applications”,* Sponsor: IFAS. \$100,000. 2008-2011.
- *Rapid Assessment of the Urban Forest Following a Hurricane: Damage, Removal and Restoration,* Sponsor: US Forest Service, \$320,000. 2007-2010.
- *Assessment of Tree Cover Change between 1986 and 1996 in Miami-Dade and Broward Counties,* Sponsor: US Forest Service, \$98,000. 2006-2008.
 - *Improvement of the Biological Degradability of Wastewater using Activated Zeolites.* Sponsor: NATO. \$240,000. 1998-2006.
 - *Assessment of the Use of Remote Sensing Techniques for Locating and Mapping of Ordinary High Water Line for the Kissimmee Chain of Lakes. Sponsor: Pickett and Associates and Florida Department of Environmental Protection. \$130,000. 2001-2002.*
 - *Mapping and Monitoring of Sedimentation and Sand Dune Encroachment in Lake Nasser Using Remote Sensing Techniques.* Sponsor: National Science Foundation, \$30,000. 2001-2002.
 - *Land-Use and land-Cover Change: Decadal-Scale Dynamics of Carbon Storage Patterns as a Function of Land Ownership in the Southeastern Lower Coastal Plain Region of the U.S.* Sponsor: NASA. \$370,000. 1999-2002.
 - *Biological Diversity in Florida: An Evaluation of Potential Species in Relationship to Habitat and Existing Reserves.* Sponsor: U.S. Geological Survey. \$1 million. 1992-2000.
 - *Natural and Human Resources Assessment of Wadi Watir, South Sinai, Egypt.* Sponsor: U.S. Agency for International Development. \$50,000. 1997-1999.
 - *Aerial Sampling for Brazilian Pepper on Canaveral National Seashore.* Sponsor: National Park Service. \$5,000. 1997.

- *Aerial Sampling of St. Johns River Water Management District Natural Vegetation Using Digital Photography and Analog Videography.* Sponsor: St. Johns River Water Management District, \$25,000. 1997-1998
- *Landcover and Change Analysis of Florida using Landsat Thematic Mapper Imagery.* Sponsor: Florida Game and Fresh Water Fish Commission. \$124,000. 1996-1998
- *Field and Image Processing Support for Land Cover Classification of South Florida.* Sponsor: National Oceanographic and Atmospheric Administration. \$18,000. 1996-1997
- *Analysis of Land Use/Cover Change in the Szigetkoz Area since Construction of the Gabcikovo Barrage System.* Sponsor: National Science Foundation, the Hungarian Academy of Sciences and the Hungarian Ministry of Environmental Protection. \$100,000. 1995-1999.
- *Update and Change Detection Mapping of Potential Wildlife Habitat.* Sponsor: Florida Game and Fresh Water Fish Commission. \$100,000. 1995-1996.
- *Enhanced Community College Interface, SUCCEED: A National Engineering Education Coalition.* Sponsor: National Science Foundation. \$350,000. 1992-1999.
- *Visualization and Imaging across the Disciplines, Shared University Research Program.* Sponsor: International Business Machines Corporation. \$128,000. 1995.
- *Coast of Florida GIS Project.* Sponsor: U.S. Army Corps of Engineers. \$42,000. 1994.
- *Mapping of a Preliminary Route for a Central American Biological Corridor.* Sponsor: Caribbean Conservation Corporation. \$7,500. 1993-1994.
- *Geographic and Resource Mapping of Miskito Cays* Sponsor: \$5,786, Caribbean Conservation Corporation. \$6,000. 1993-1994.
- *Technology Transfer Program for Local Transportation Agencies - Research Implementation Plan.* Sponsor: Florida Department of Transportation. \$27,000. 1991-1992.
- *Land Use/Cover Accuracy Assessment.* Sponsor: Southwest Florida Water Management District. \$27,000. 1992.
- *Terminal Interconnected Equipment and Protocol Development for a GPS Monitoring Base Station.* Sponsor: National Aeronautics and Space Administration. \$29,000. 1991-1992.
- *Identification of Land Use/Transportation Network Change.* Sponsor: National Oceanographic and Atmospheric Administration. \$79,000. 1990-1991.

- *Site Verification Using Global Positioning System.* Sponsor: Florida Department of Environmental Regulation. \$65,000. 1990-1991.
- *Expanded Geodetic Control Along the Primary Road System by Use of Satellite Surveying Technology* Sponsor: Florida Department of Transportation. \$214,000. 1990-1991.
- *Satellite Remote Sensing Imagery.* University of Florida Libraries Sponsor: State Lottery Grant. \$58,000. 1991.
- *Soils Mapping by Use of Satellite Imagery.* Sponsor: U.S. Department of Agriculture. \$20,000. 1990.
- *Georeferencing of Landsat Thematic Mapper and SPOT Data to Universal Transverse Mercator Coordinates.* Sponsor: Southwest Florida Water Management District. \$17,000. 1990.