

REMOTE-SENSING METHODS FOR MARSH DIEBACK IDENTIFICATION AND DELINEATION

Rob Cunningham

Research Associate, Center for Coastal, Energy, and Environmental Resources
E302 Howe-Russell
Louisiana State University
Baton Rouge, Louisiana (phone 225-813-7013; rcunnin@lsu.edu)

Russell Watkins

Director of Research and Development, 3001, Inc.
3655 SW 2nd Ave., Ste. 3C
Gainesville, Florida 32607 (phone 352-379-3001; fax 352-377-4234;
flw@gnv.3001data.com)

DeWitt Braud

Manager, Geography and Anthropology
Department of Geography and Anthropology
E216 Howe-Russell
Louisiana State University
Baton Rouge, Louisiana (phone 225-578-6177; fax 225-578-4420; dbraud1@lsu.edu)

3001, Inc. recently teamed with Advanced Power Technologies, Inc. to conduct a LIDAR and airborne hyperspectral scanner survey of a portion of the Alaska Pipeline and surrounding environs for the Bureau of Land Management. The data collected will be used to monitor riparian environments and develop mitigation plans for drainage related environmental hazards, such as oil spills. A similar mission is planned for coastal Louisiana in late spring, 2001, using the Rockefeller State Wildlife Refuge as a test area. Landsat Thematic Mapper satellite imagery will be analyzed to provide vegetative spectral characteristics of the refuge area conditions prior to the test flight. A knowledge-based, expert system will be evaluated for detecting the spectral/elevation variability of marsh dieback and related vegetative stress using a combination of these technologies.