

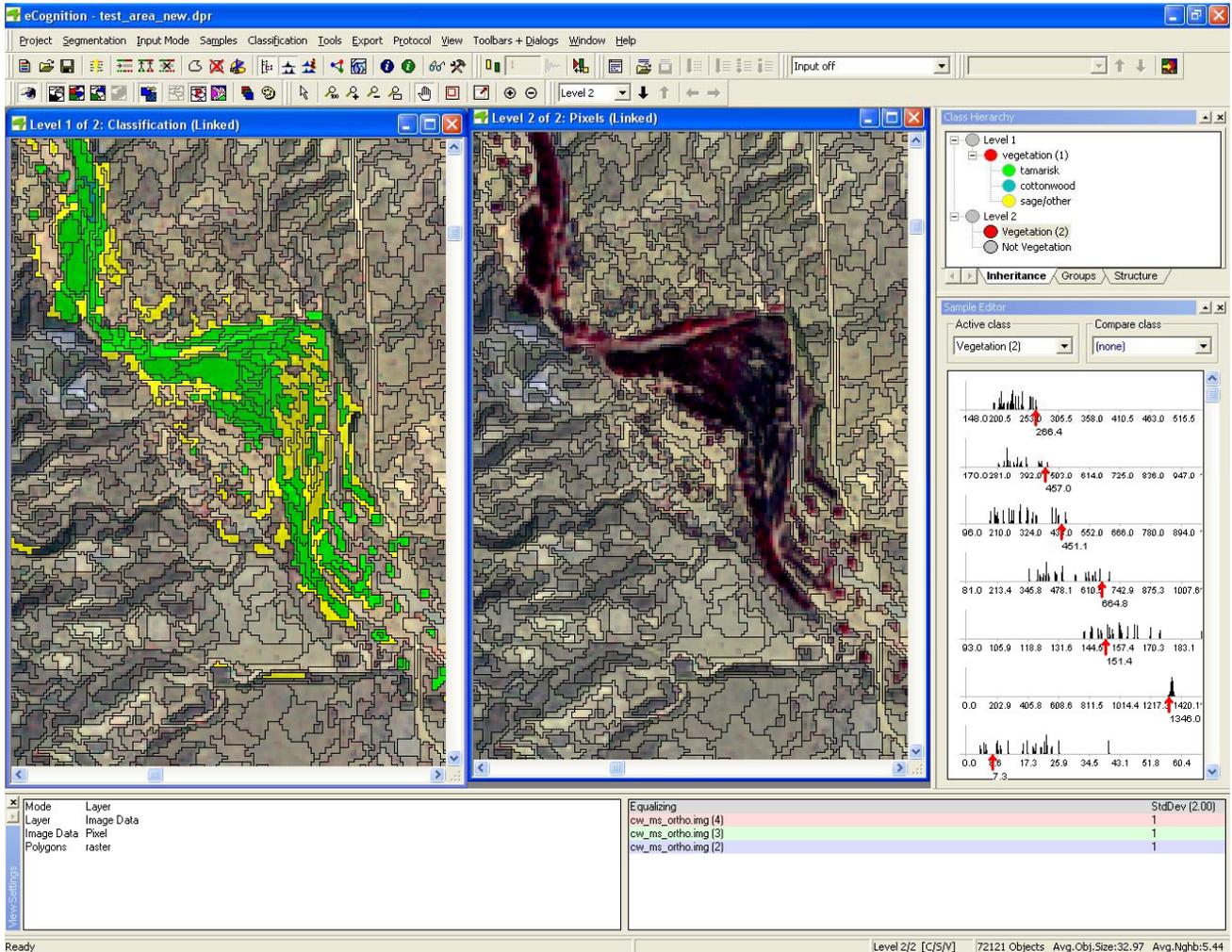
DOI Science Investigations

The U.S. Geological Survey (USGS) Rocky Mountain Geographic Science Center (RMGSC) is using advanced technologies for all source mapping investigations to support the application development of multiple source remote sensing capabilities critical to the Department and Bureau mission. The RMGSC is conducting research using multiple sources and resolutions of remotely sensed data using advanced image processing algorithms and methods in support of these and other DOI land management activities.

Bureau of Land Management Air Emissions Research - RMGSC and the BLM are collaborating on researching methodologies to accurately identify and map point and area sources of air emissions in the San Juan Basin of New Mexico and Colorado. Remotely sensed data is being used to identify various sources of air emissions including the disturbed areas resulting from oil and gas development. Enhanced manual and automated image processing techniques are being developed and evaluated. For example, image processing techniques are being researched and developed to extract and map disturbed areas including well pads, roads and pipeline corridors.



Fire fuels and associated risks and invasive species in the western United States - The RMGSC is cooperating with the Bureau of Land Management (BLM) to identify and map Tamarisk, an invasive species that is present throughout the western United States. Similar research is being conducted with the BLM, U.S. Forest Service and the Colorado State Forestry to map fire fuels at the local level.



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