

Center of Remote Sensing and Modeling for Agricultural Sustainability



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ABOUT US



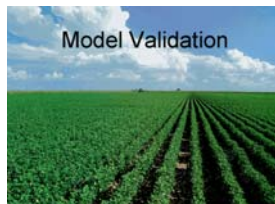
Our team

Our research center consists of research scientists at the [USDA UV-B Monitoring and Research Program](#) and affiliated research scientists and professors from Universities and research institutions.[Learn More](#)



Agriculture Effect Research

Observed depletion of stratospheric ozone raises strong concerns in both scientific community and the public of concomitant increases in ultraviolet-B (UV-B) radiation reaching the earth's surface and its detrimental impacts on agriculture... [Learn More](#)



The Center of Remote Sensing and Modeling for Agricultural Sustainability (CRSMAS) in the USDA UV-B Monitoring and Research Program has been conducting two major research projects: 1. Evaluate response of plants, forests, ecosystems, and animals to UV-B and other climate stress factors; 2. Develop an Integrated Agricultural Impact Assessment System.

The program works with agricultural/forest researchers to evaluate the isolated effects of elevated UV-B on agricultural crops, livestock, forests, and range resources. Furthermore, we assess the combined effects of UV-B radiation and other climate stress factors such as moisture (drought), temperature, ozone, soil nutrients and CO₂. By understanding both compounding and antagonistic effects of multiple stress factors, research will help develop solutions that allow producers to cope with these detrimental effects and ensure future agriculture and livestock quality and productivity.

We are developing an Integrated Agricultural Impact Assessment System capable of achieving credible and quantitative assessments of key stress factors and evaluating alternative cultural practices for sustainable agriculture production. Such a system will be sufficiently comprehensive to include crop growth models, ultraviolet-visible solar radiation, Earth's climate, air and water quality models, and satellite and in-situ observations.

News & Events

07/01/2007

[Dr. Wei Gao was appointed as the director of the USDA UV-B Monitoring and Research Program.](#)

06/28/2007

[Dr. Wei Gao's promotion for a senior research scientist has been approved by the Colorado State University.](#)

12/12/2005

[Dr. Wei Gao receives a Fellowship of SPIE. Congratulations!](#)

01/08/2007

[REMOTE SENSING AND MODELING OF ECOSYSTEMS FOR SUSTAINABILITY IV \(OP402\), abstract due on 02/26/2007](#)

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