

Science Serving Society

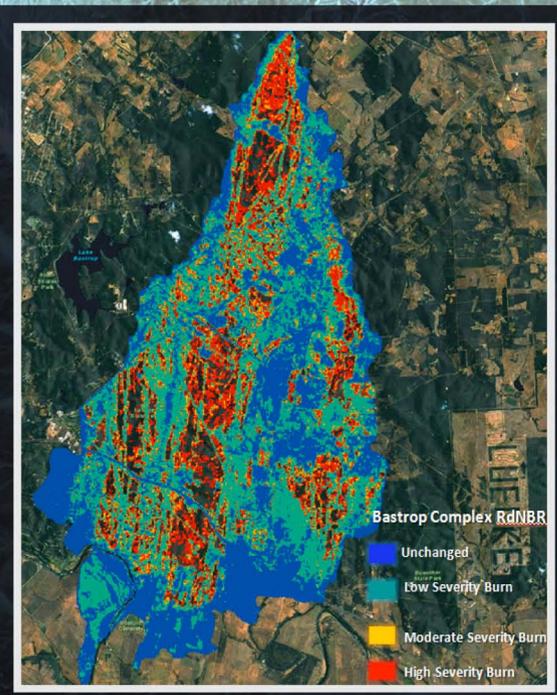
DEVELOP

DEVELOP Mission

Uniting Earth observations with society to foster future innovation and cultivate the professionals of tomorrow by addressing diverse environmental issues today.

The DEVELOP National Program is a training and development internship sponsored by NASA's Applied Sciences Program that provides students and young professionals the opportunity to learn about NASA Earth Science and the practical applications of Earth observations.

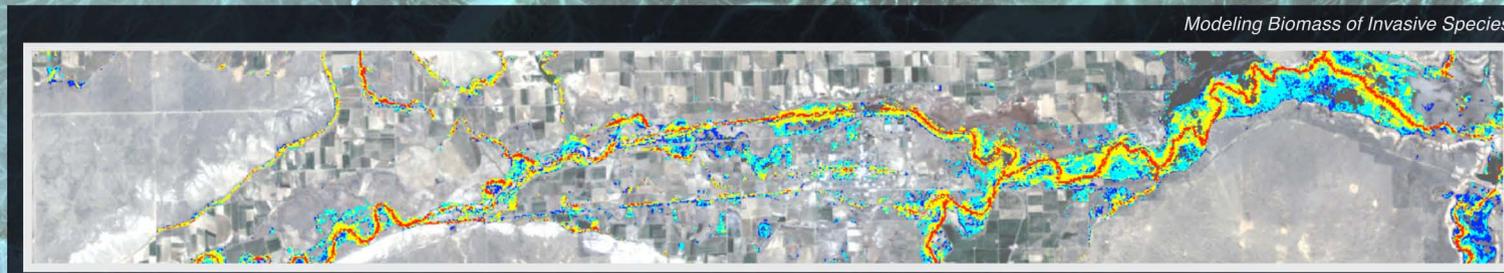
DEVELOP fosters an interdisciplinary research environment for students and young professionals to work on applied science research projects under the guidance of NASA and partner science advisors. DEVELOP is unique in that interns lead community-driven research projects that focus on utilizing NASA Earth observations to address environmental concerns and public policy issues. DEVELOP teams work in alignment with local, regional, national, and international partner organizations to identify the widest array of practical uses for NASA data to enhance understanding of environmental change.



Monitoring Burn Severity

Texas Disasters

DEVELOP interns at Langley Research Center partnered with the Texas Forest Service to enhance disaster management capabilities through the use of NASA Earth observations. The team created enhanced burn severity and fire risk maps derived from the Landsat 5, Aqua, and Terra satellites, demonstrating the capabilities of NASA Earth Science to augment wildfire response and mitigation in the state of Texas.



Colorado Ecological Forecasting

A team of DEVELOP interns at the USGS Fort Collins Science Center partnered with the Rocky Mountain National Park to explore the use of Landsat satellite imagery to monitor invasive species in Colorado. Using multiple predictor variables and spatial modeling techniques, the team produced a detailed inventory of maps and methodologies for resource managers and land owners to better allocate resources for mitigation efforts.

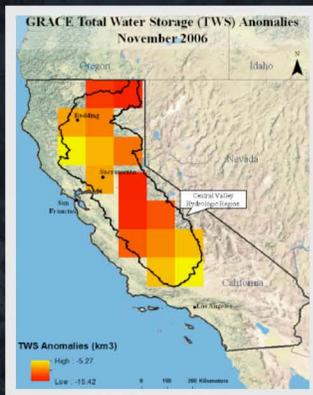
As DEVELOP responds to the global need for enhanced decision support tools using NASA Earth observations and remote sensing, it simultaneously cultivates the young leaders and scientists of tomorrow. Challenged to think outside the box, take initiative, and employ innovative ideas, interns who participate in the DEVELOP Program are better prepared to handle the challenges that face our society and future generations.

Internship opportunities are available for 10 week terms during the spring, summer, and fall. Applications are encouraged from students interested in science, technology, and policy, age 16 and older, and enrolled in a U.S. accredited school. For applications visit <http://develop.larc.nasa.gov>



Central Valley Water Resources

DEVELOP interns at Ames Research Center partnered with the California Department of Water Resources to employ NASA's GRACE mission to estimate groundwater storage changes in California's Central Valley aquifer. Total water storage anomalies were monitored and compared to hydrological models currently employed, demonstrating the feasibility of using NASA Earth observations to supplement water resource management in California.



Estimating Groundwater Storage

DEVELOP Locations in North America

NASA Ames Research Center - Moffett Field, CA

Fort Collins Science Center - Fort Collins, CO

NASA Goddard Space Flight Center - Greenbelt, MD

Great Lakes & St. Lawrence Cities Initiative -
Chicago, IL

International Research Institute for Climate and Society,
The Earth Institute, Columbia University - Palisades, NY

Jet Propulsion Laboratory - Pasadena, CA

NASA Langley Research Center - Hampton, VA

NASA Marshall Space Flight Center - Huntsville, AL

Mobile County Health Department - Mobile, AL

Saint Louis University - St. Louis, MO

NASA Stennis Space Center - Stennis, MS

Tecnologico de Monterrey Campus Saltillo -
Saltillo, Mexico

Wise County Clerk of Court's Office - Wise, VA

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NP-2012-07-398-LaRC

Dream

Discover

DEVELOP