National Aeronautics and Space Administration

DEVELOP YOUR DECISION

with NASA's Applied Sciences' Capacity Building

DEVELOP National Program

Can NASA Satellite Data Help Your Organization?

- Introduction to NASA Earth observation capabilities
- Enhanced decision support tools
- New methods to augment current practices

What is DEVELOP?

DEVELOP addresses environmental and public policy issues through interdisciplinary research projects that apply the lens of NASA Earth observations to community concerns around the globe. Bridging the gap between NASA Earth Science and society, DEVELOP builds capacity in both participants and partner organizations to better prepare them to address the challenges that face our society and future generations.

Teams of DEVELOP participants partner with decision makers to conduct rapid feasibility projects that highlight relevant applications of Earth observing missions, cultivate advanced skills, and increase understanding of NASA Earth science data and technology.

About Projects

DEVELOP conducts feasibility projects that utilize NASA satellite and airborne observations in customized applications to demonstrate to decision makers the utility of remote-sensing data. These projects are focused on application areas including:

- Health & Air Quality
- Disasters
- Water Resources
- Energy
- Transportation & Infrastructure
- Urban Development
- Ecological Forecasting
- Agriculture & Food Security

Why Partner with DEVELOP?

Build your organization's capacity to utilize NASA Earth science data and expand the tools and resources available when making decisions. DEVELOP teams conduct feasibility projects that identify methods, prepare and analyze preliminary results, and create a set of deliverables (technical paper, poster, presentation, video). The team then provides these deliverables to the partner organization at the culmination of the project. Following the project hand-off, partner organizations are empowered to self-sustainably use Earth observation data through the methods identified by DEVELOP. This may decrease data collection costs, streamline decision making, and fill in data gaps.

Have Questions?

Please contact us with any questions about the program at NASA-DL-DEVELOP@mail.nasa.gov.

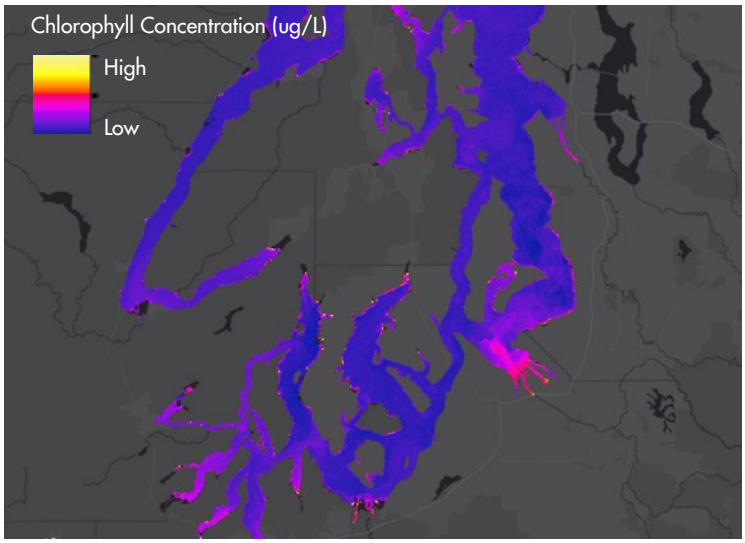
DEVELOP
SCIENCE SERVING SOCIETY

What are NASA Earth Observations?

Space is one of the best vantage points from which to study Earth. NASA satellites and airborne missions are continually collecting information about Earth's ocean, atmosphere, and land surfaces. This Earth observation imagery can be applied to environmental issues and provide decision makers with new information to enhance their response.

Project Example
Puget Sound Water Resources

Eutrophication and harmful algal blooms have become more prevalent in the Puget Sound since 2000, negatively impacting water quality and wildlife. Partnering with the Pacific States Marine Fisheries Commission Habitat Program, this project identified the most accurate methods for using satellite imagery to monitor water quality in the Puget Sound. The products developed help to determine areas at a higher risk of HAB events and further inform local decision-making practices and management of water resources.



"Pacific States Marine Fisheries Commission has not used remote sensing data from satellites in their work. This project has opened up a window into the potential power and utility of these datasets for monitoring. Such tools could potentially help us fill existing data gaps where on the ground monitoring data is lacking and better understand temporal and spatial patterns in water quality."

--- Fran Recht, Pacific States Marine Fisheries Commission Habitat Program

Project Process

1. Partner & DEVELOP discuss potential project & draft a proposal based on Partner needs
2. NASA reviews and selects proposals
3. DEVELOP team conducts project with Partner input and feedback throughout the course of the 10-week term
4. DEVELOP hands off project results and methods to Partner
5. Partner utilizes results & methods in decision-making process

How to Engage

DEVELOP collaborates with a wide variety of organizations (state and local governments, NGOs, federal agencies, international organizations, etc.) to conduct rapid feasibility projects focused on applying NASA Earth observations to environmental decision-making processes. DEVELOP is built on strong projects that stem from robust partnerships. The program seeks engaged partners who value scientific collaboration, and most importantly, regular communication during the short 10-week term.

Any organization interested in partnering with DEVELOP can contact the National Program Office and discuss potential project ideas by completing a project request form and submitting it through email. The form can be found online at https://develop.larc.nasa.gov/projects.php

www.nasa.gov
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More About DEVELOP - DEVELOP.larc.nasa.gov