

National Aeronautics and
Space Administration



NASA Applied Science's
Capacity Building
DEVELOP
National Program

2016
Annual Report



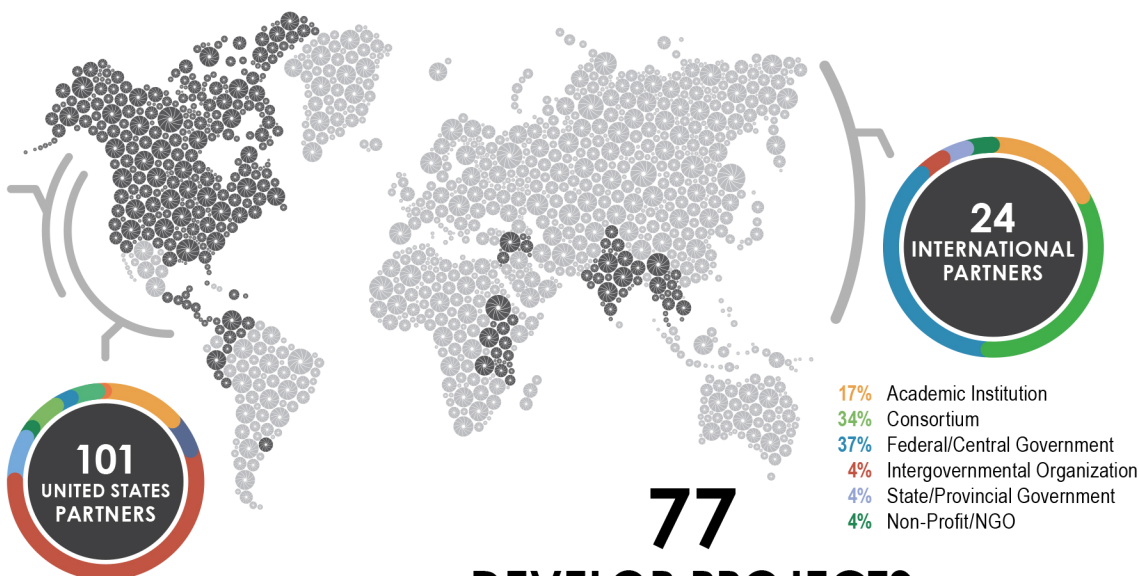
12 DEVELOP NODES

NASA CENTER LOCATIONS

- NASA Ames Research Center
- NASA Goddard Space Flight Center
- NASA Jet Propulsion Laboratory
- NASA Langley Research Center
- NASA Marshall Space Flight Center at NSSTC

REGIONAL LOCATIONS

- NOAA National Centers for Environmental Information
- BLM at Idaho State University GIS TRC
- USGS at Colorado State University
- Wise County and City of Norton Clerk of Court's Office
- Mobile County Health Department
- University of Georgia
- Maricopa County Department of Public Health and Arizona State University



- | | |
|--------------------------------|--------------------------------|
| 14% Academic Institution | 3% Research Institution |
| 6% Consortium | 5% State/Provincial Government |
| 55% Federal/Central Government | 1% Tribal Entity |
| 8% Local Government | 6% Non-Profit/NGO |
| 2% Private Sector | |



DEVELOP 2016 PROJECT & PROGRAM

HIGHLIGHTS

As part of NASA's Applied Sciences Program, DEVELOP builds capacity in both participants and partner organizations to better prepare them to address the challenges that face our society and future generations. DEVELOP has continuously achieved its mission to foster innovation, cultivate the future leaders and professionals of tomorrow, and utilize NASA Earth observations to address diverse social and environmental issues.

SPRING TERM



107
PARTICIPANTS



26
PROJECTS



56
PARTNERS

PROJECT HAND-OFFS

The ARC Navajo Nation Climate project conducted a workshop to hand-off its drought monitoring tool to the Navajo Nation and the BLM-ISU Southeast Idaho Disasters project conducted a workshop to hand-off juniper distribution mapping results and methods.

NPS CENTENNIAL

DEVELOP celebrated the National Park Service Centennial through 17 projects (9 summer & 8 fall) focused on monitoring change and threats to America's national parks and highlighting the use of Earth observations to support our national treasures.

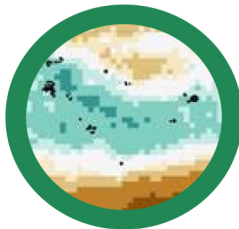


INTERNATIONAL COLLABORATION

DEVELOP, the Embassy of Costa Rica, Costa Rican decision makers, and students in Costa Rica collaborated on the UGA Costa Rica Water and JPL Costa Rica Eco projects which were featured in a special event hosted by the Embassy.

PUBLICATION

The NCEI Pacific Water project published in AGU's *Eos*.*



AWARD

DEVELOP's Karen Allsbrook was awarded NASA's Silver Achievement Medal for her many contributions to DEVELOP.

FALL TERM



108
PARTICIPANTS



21
PROJECTS



41
PARTNERS

DEVELOP FEATURED

The MCDPH-ASU Maricopa County Health & Air Quality project was featured in Arizona State University's *ASU Now* and the GSFC Puerto Rico Agriculture project was featured on NASA's *Earth Observatory*.*

AWARDS

DEVELOPers Allison Daniel (MSFC) and Dr. Sara Lubkin (GSFC) were two of five grand prize winners of AGU's 2016 Data Visualization Storytelling Contest. The MSFC Chaco Canyon Cross-Cutting project won 1st place in the Physical & Liberal Sciences category of the Wernher von Braun Memorial Symposium's student poster competition.



COLLABORATION



INNOVATION



DISCOVERY



PASSION



AWARD

The NCEI Pacific Water Resources project was awarded the NOAA National Centers for Environmental Information Employees' Choice Award for Innovative Product of 2015.

PUBLICATIONS

The MSFC East Africa Disasters project published in *The Earth Observer* and DEVELOP's Georgina Crepps published in *Earthzine*.*

SUMMER TERM



136
PARTICIPANTS



30
PROJECTS



71
PARTNERS

DEVELOP FEATURED

The JPL Louisiana Eco project was featured in NASA's *Global Climate Change News* and the GSFC Great Lakes Eco project was featured in the *Detroit Free Press*.*

ANNUAL EARTH SCIENCE APPLICATIONS SHOWCASE

DEVELOP hosted the Annual Earth Science Applications Showcase at NASA Headquarters on August 10th featuring 30 summer projects highlighting the applications of NASA Earth science data for environmental decision making around the globe.



SCHOLARSHIPS

Science Systems and Applications Inc. awarded scholarships to three DEVELOPers: Jared Tomlin (GSFC), Rachel Cabosky (LaRC), and Daryl Ann Winstead (MSFC).

INTERNATIONAL COLLABORATION

DEVELOP's Lauren Childs-Gleason and Georgina Crepps participated in a knowledge exchange focused on using GIS and gender data to reduce disaster risk in southeast Asia.*



PUBLICATIONS

The NCEI Pacific Water project published in the *Bulletin of the American Meteorology Society* and DEVELOP's Lauren Childs-Gleason and Georgina Crepps published in *The Earth Observer*.*

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