DEVELOP summer projects included four in the Health and Air Quality fields.

Maya Midzik, Joseph Abbate, and Garima Raheja partnered with the Bay Area Quality Management District and NASA Alpha Jet Atmospheric eXperiment to use satellite, aircraft and ground-based observations to monitor methane and improve a greenhouse gas inventory network for the San Francisco Bay area.

Jason Hodgson, Leslie Araujo, and Tamara Dunbarr partnered with the Maricopa County Department of Health and Maricopa County Air Quality Department to monitor PM10 concentrations for enhanced decision making and epidemiology.

Amy Wolfe, Amber Showers, Emily Beyer, Eric White, and Tyler Rhodes partnered with the National Park Service (NPS) to monitor ozone and atmospheric pollutants in the troposphere to help regulate point source emissions along the Appalachian Trail, and to improve ozone advisory messages by the NPS.

Christie Stevens, Toni Strauch, and Alec Courtright partnered with the CDC, the EPA and the AirNow Program to understand the temporal and spatial variation of air quality to support the use of satellite aerosol data for the coastal United States.
for data-driven decision making, often saving organizations time and costs. DEVELOP conducts projects in the spring, summer, and fall, on a 10-week timeline, fostering rapid applied benefit. This summer, 138 participants partnered with 72 local and state governments, regional consortiums, federal agencies, non-governmental and private organizations, academic institutions, and international governments to provide applications of Earth observations to end users.

To participate in this dynamic program as participants, project partners, or advisors, please contact the DEVELOP team [here](#).

**Upcoming Deadlines:**
- Aug 29-Oct 7 Application Window for Spring 2017 Term
- Jan 9-Feb 17 Application Window for Summer 2017 Term

**WHAT’S NEW IN THE FIELD?**

**QUANTIFYING THE IMPACT OF SCENIC ENVIRONMENTS ON HEALTH**
*Nature Scientific Reports*
*November 25, 2015*

Serresinhe et. al. compared crowdsourced ratings of environmental aesthetics to self-reported health data, and find that inhabitants of more scenic environments report better health across urban, suburban, and rural areas. Even when accounting for air pollutants, inhabiting regions with large areas of water, open blue skies or mountainous landscapes has a significant impact on health.

**EARLY LIFE EXPOSURE TO THE GREAT SMOG OF 1952 AND THE DEVELOPMENT OF ASTHMA**
*American Journal of Respiratory and Critical Care Medicine*
*July 8, 2016*

Bharadwaj et. al. describe their findings of increased risk of asthma development following early-life exposure, as observed following the Great Smog of London in 1952.

**FEATURED**

**NEW GENERATION OF SATELLITES WILL SHED LIGHT ON RESPIRATORY DISEASE**
*Lancet Respiratory Medicine*
*September, 2016*

Bryant Furlow’s spotlight featured HAQ’s John Haynes, who described NASA’s new generation of public health-oriented satellite missions, like the Multi-Angle Imager for Aerosols (MAIA) and Tropospheric Emissions: Monitoring Pollution (TEMPO) spectrometer satellite instruments.