

NASA's Applied Remote Sensing Training Program (ARSET)

<http://arset.gsfc.nasa.gov/>

- Empowering the global community through remote sensing training
- Part of NASA's Applied Sciences Capacity Building Program
- Goal: increase the use of Earth Science in decision-making through training for:
 - policy makers
 - environmental managers
 - other professionals in the public and private sector
- Trainings offered focusing on applications in:



Disasters
9 trainings



Land
12 trainings



Health & Air Quality
53 trainings



Water Resources
20 trainings

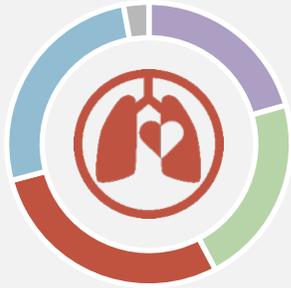


Train the Trainers
1 training

ARSET Health & Air Quality Training Impact (2009 – present)

ARSET Participants by Focus Area:
11,608 (2009 – present)

Health &
 Air Quality
 Participants
 (2009-2017)
 2,946



16 online trainings



37 in-person trainings

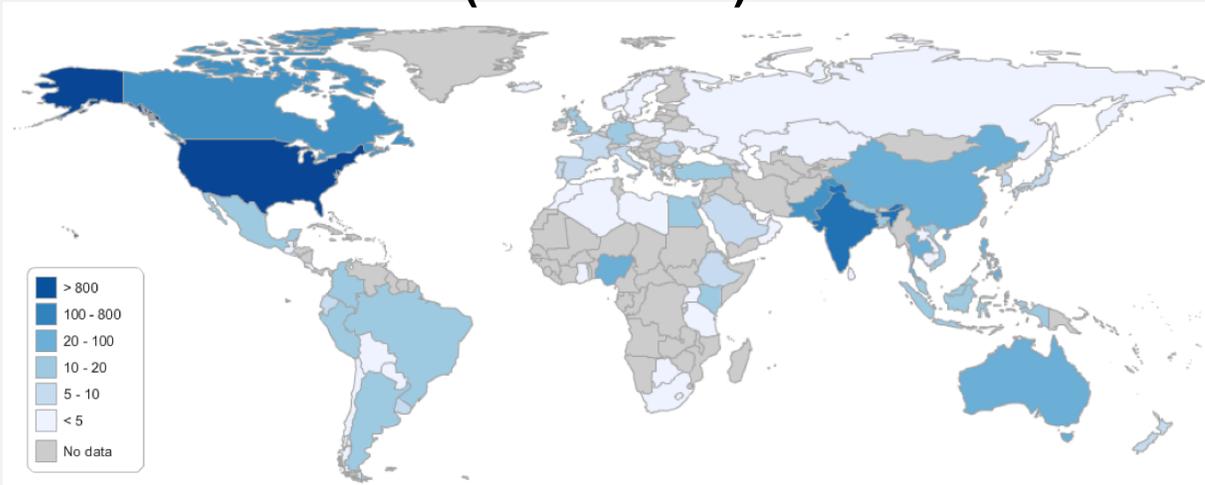


836 organizations

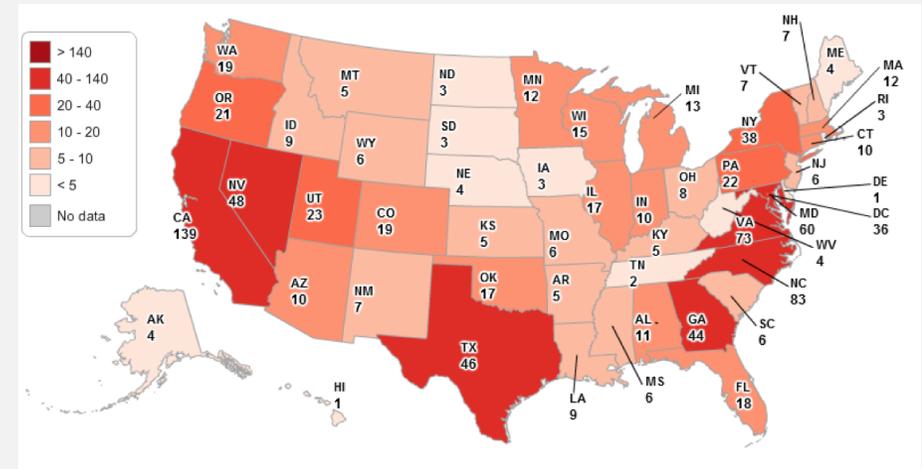


75 countries

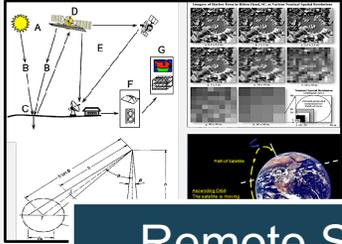
**Air Quality Participants by Country
 (2009-2016)**



**Air Quality Participants by U.S. State
 (2009-2016)**



ARSET Air Quality Trainings



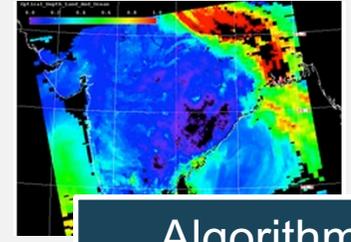
Remote Sensing



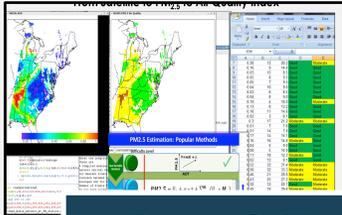
Satellites



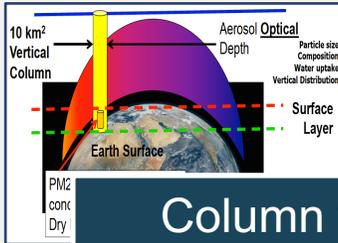
Images



Algorithms



Data & Tools



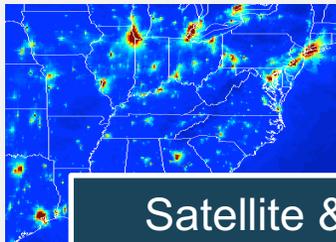
Column to Surface



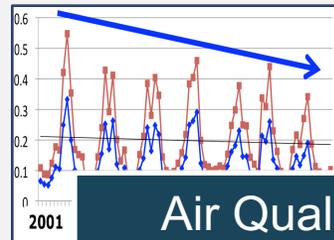
Dust and Smoke



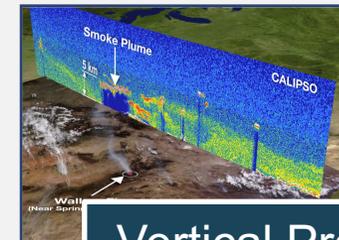
Transport



Satellite & Model Comparison



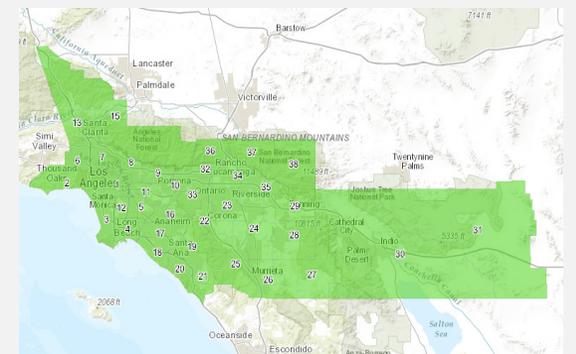
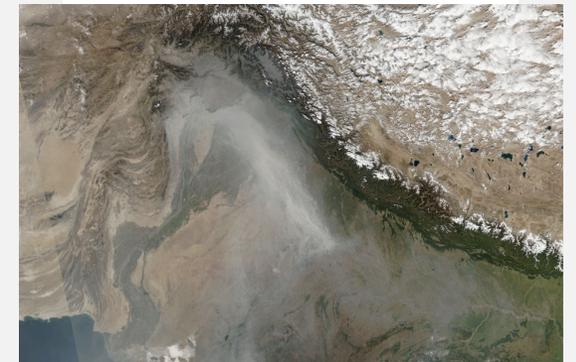
Air Quality Trends



Vertical Profiles

Recent & Upcoming Air Quality Trainings

- Satellite Derived Annual PM_{2.5} Data Sets in Support of United Nations Sustainable Development Goals
 - 3 week webinar series, March 15-29, 2017
 - 391 attendees from 61 countries
- Satellite Remote Sensing of Air Quality: Data, Tools and Applications
 - IITM, Pune, India, May 23-26, 2017
 - 55 attendees from 30 organizations
- NASA ARSET Air Quality Remote Sensing Training
 - South Coast Air Quality Management District
 - September 19-21, 2017



Tentative Plans for 2017 - 2018

- High Resolution Data and Tools for Air Quality Applications
 - Advanced Webinar Series
- High Temporal Resolution Data from Geostationary Platforms for Air Quality Applications
 - Introductory Webinar Series
- Smoke and Dust Monitoring in the Northwestern U.S.
 - In-Person Training
- Satellite Remote Sensing of Air Quality in Southeast Asia
 - In-Person Training

ARSET Website and Annual Report

<http://arset.gsfc.nasa.gov/airquality/>

Earth Sciences Division Applied Sciences ASP Water Resources

NASA ARSET Applied Remote Sensing Training

Search this site

Home About Trainings

Health & Air Quality

Image: Air quality visualization from EPA and MODIS 11 Sept 2003

ARSET provides in-person and online trainings focusing on remote sensing applications for health and air quality. Topics can include:

- Satellite observations of aerosols and trace gases, data access and applications
- Smoke and dust detection and monitoring
- Satellite based surface particulate matter (PM2.5, PM10) data sets and applications
- Air quality case study analysis using satellite, surface and model data sets
- Long range transport of atmospheric aerosols and trace gases

Health & Air Quality

- Air Quality Webinars ▾
- Air Quality Workshops ▾
- Applications ▾
- Tools

Upcoming Training

Airquality

Satellite Derived Annual PM2.5 Data Sets in Support of United Nations Sustainable Development Goals

03/15/2017 to 03/29/2017

Disasters

NASA Remote Sensing for



Download the report at
<http://go.nasa.gov/2l8kxRE>