



Satellite Remote Sensing of Air Quality

November 18-19, 2018

Partners: NASA ARSET, IIRS Dehradun, and ISPRS

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Sunday, November 18

09:00 - 09:30 Registration and Logistics
IIRS

09:30 - 10:30 Opening and Tea Break

10:30 - 11:30 Introduction to Satellite Remote Sensing for Air Quality
ARSET: Lecture, Discussion

12:00 - 12:30 Exploring Satellite Imagery Using Worldview
ARSET: Hands-On

12:30 - 13:00 Air Quality Observations from Indian Satellites:
Visualization & Analysis
VEDAS, MOSDAC
IIRS: Lecture, Discussion

13:00 - 14:00 Lunch Break

14:00 - 14:30 Air Quality Observations from Indian Satellites:
Visualization & Analysis
VEDAS, MOSDAC
IIRS: Hands-On

14:30 - 15:30 Satellite Remote Sensing of Aerosols
MODIS, VIIRS
ARSET: Lecture, Discussion

15:30 - 15:45 Tea Break

15:45 - 16:15 Level 2 Aerosol Data Search and Download
Earthdata, LAADSWeb
ARSET: Lecture, Discussion

16:15 - 16:45 Exploring and Mapping Level 2 Aerosol Data Using Panoply
ARSET: Hands-On

16:45 - 17:15 Accessing and Analyzing Level 3 Aerosol Data
Giovanni
ARSET: Hands-On

17:15 - 17:45 Validation of Aerosol Datasets
ARSET: Hands-On

17:45 - 18:00 Discussion and Review of Day 1



ARSET empowers the global
community through remote
sensing training.

www.arset.gsfc.nasa.gov

Monday, November 19

- 09:30 - 09:45 Review of Day 1 and Goal of Day 2
- 09:45 - 10:00 Discussion and Grouping for Case Study Analysis
- 10:00 - 11:00 Trace Gases and Air Quality Modeling: An Introduction
IIRS: Lecture, Discussion
- 11:00 - 11:15 Tea Break
- 11:15 - 12:00 Satellite Remote Sensing of Trace Gases, Products, and Data Access
ARSET: Lecture, Demonstration
- 12:00 - 13:00 Model and Satellite Intercomparison: Using RSIG Tool
IIRS: Lecture, Hands-On
- 13:00 - 14:00 Lunch Break
- 14:00 - 15:00 Satellite Remote Sensing of Particulate Matter Air Quality
ARSET: Lecture, Discussion
- 15:00 - 15:30 $PM_{2.5}$ Estimation Using Satellite Data
ARSET: Hands-On
- 15:30 - 15:45 Tea Break
- 15:45 - 16:00 $PM_{2.5}$ Datasets and Access
ARSET: Hands-On
- 16:00 - 17:30 Participants Work on Air Quality Case Studies
- 17:30 - 18:30 Participant Presentation on Air Quality Case Studies
- 18:30 Training Ends

