



Satellite Remote Sensing of Flood Monitoring & Management

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 Overview of NASA Satellite Remote Sensing and Earth System Modeling for Monitoring and Mapping
Precipitation, Weather Data, Land Cover, Soil Moisture
ARSET: Lecture, Discussion

11:30 - 13:00 Data Access and Analysis: Precipitation, Soil Moisture, Winds, Humidity, Sea Level Pressure
Giovanni, NASA Earthdata, AppEEARS
ARSET: Hands-On

12:30 - 13:00 Lunch Break

14:00 - 14:30 Data Access and Analysis: Terrain and Socioeconomic Data
CGIAR/GDeX, SEDAC
ARSET: Lecture, Demonstration

14:30 - 15:30 Overview of ISRO Satellite Remote Sensing for Flood Monitoring and Mapping
ISRO: Lecture, Discussion

15:30 - 15:45 Break

15:45 - 17:00 Data Access and Analysis: Hydrological Variables, Optical, SAR, Scatterometer, & Altimeter
IIRS, ISRO: Hands-On

17:00 - 17:45 Presentations by Participants

17:45 - 18:00 Summary and Q&A



ARSET empowers the global community through remote sensing training.

www.arset.gsfc.nasa.gov

Monday, November 19

- 09:30 - 10:00 Overview of Flood Monitoring and Mapping Based on Remote Sensing of Land Cover
ARSET: Lecture, Discussion
- 10:00 - 11:00 Overview and Applications of Synthetic Aperture Radar (SAR)
ARSET: Lecture, Discussion
- 11:00 - 11:15 Break
- 11:15 - 12:30 SAR Application for Flood Mapping
SNAP
ARSET: Hands-On
- 12:30 - 13:00 Overview of Flood Monitoring and Mapping Based on Precipitation Data
ARSET: Lecture, Discussion
- 13:00 - 14:00 Lunch Break
- 14:00 - 14:30 ISRO Flood Monitoring and Modeling Tools
IIRS: Lecture, Discussion
- 14:30 - 15:30 Near Real-Time Flood Monitoring
ERDS, GDACS, DFO
ARSET: Lecture, Demonstration
- 15:30 - 15:45 Break
- 15:45 - 17:00 Flood Monitoring Case Studies
ARSET, IIRS: Hands-On
- 17:00 - 17:45 Presentations by Participants
- 17:45 - 18:30 Summary, Q&A, and Survey

