Advanced Webinar: Using NASA Remote Sensing for Flood Monitoring & Management

Wednesdays, March 16 – April 6, 2016
8:00 a.m. – 9:00 a.m. and 4:00 p.m. – 5:00 p.m. EDT (UTC-4)

This webinar will provide demonstrations and hands-on experience in using NASA remote sensing observations and flood mapping tools useful for flood management. Participants will learn to access rainfall, streamflow, and surface inundation extent data for regional flood cases. In addition, participants will learn to access digital elevation and terrain data, as well as socioeconomic data, to facilitate flood risk assessment and post-flood relief planning using a GIS framework.

Prerequisite: Weeks 1-3 of ARSET's NASA Remote Sensing Observations for Flood Management Training

Session One: Demonstration of Flood Mapping Web Tools Based on NASA Remote Sensing Observations of Rainfall

March 16, 2016
An overview of the Global Flood Monitoring System (GFMS), the Extreme Rainfall Detection System (ERDS), and NASA SERVIR.

Session Two: Demonstration of Flood Mapping Web Tools Based on NASA Remote Sensing Observations of Land Cover

March 23, 2016
An overview of near real-time MODIS inundation and the Dartmouth Flood Observatory.

Session Three: Overview & Access to Ancillary NASA Data for Flood Management

March 30, 2016
An overview of Synthetic Aperture Radar (SAR) data information (Guest Speaker: Sang-Ho Yun), accessing Shuttle Radar Topography Mission (SRTM) terrain data, and accessing the Socioeconomic Data and Applications Center (SEDAC) data.

Session Four: Flooding Case Studies Using NASA Web Tools & GIS

April 6, 2016
Case studies include: May 2015 Texas Flood, February 2015 Bolivia Flood, January 2015 Malawi Flood, and the November-December 2015 India Flood.