NASA Applied Remote Sensing Training Program (ARSET)

Using Satellites for Improved Flood Monitoring and Prediction

World Bank, Washington D.C, March 7th, 2013

Instructors:

Amita Mehta, University of Maryland Baltimore County and NASA/GSFC
Ana Prados, University of Maryland Baltimore County and NASA/GSFC
Robert Adler, Earth System Science Interdisciplinary Center (ESSIC), University of Maryland
Martina Ricko, Earth System Science Interdisciplinary Center (ESSIC), University of Maryland
Nancy Searby, NASA Applied Sciences Program
Cerese Albers, Universities Space Research Association and NASA/MSFC
Robert Brakenridge, Director, Dartmouth Flood Observatory, University of Colorado

1) 11:00 am to 12:25 pm

11:00 – 11:30 Course Introduction and remote sensing basics (Ana)
11:30 – 12:00 Overview of satellites/sensors useful for flood monitoring (Amita)
12:00 – 12:25 Overview of selected flood-related web-sites and tools [NASA/TRMM Floods; MODIS Inundation; The Flood Observatory; USGS Flood Watch, Global Flood Working Group/GDACS, SERVIR] (Amita)

12:25 – 2:00 PM Lunch

2) 2:00 pm to 3:30 pm

2:00 – 2:30 The Flood Observatory (Robert Brakenridge)
2:30 – 3:30 The SERVIR Regional Visualization and Monitoring System: Africa applications and hands-on exercise utilizing SERVIR Global (Nancy and Cerese).

3:30 – 4:00 PM - Break

3) 4:00 pm to 5:30 pm.

4:00 – 4:30 University of Maryland Global Flood Monitoring System (Robert Adler)
4:45 – 5:30 Hands-on Case Study with the Global Flood Monitoring System and the MODIS Inundation Tool: The January 2013 Mozambique Floods (Martina and Amita)