Land Cover for Climate LC4Climate

Silva Carbon Workshop

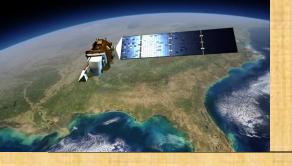## January 2014

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Land Cover for Climate LC4Climate

- **Earth Observations Land Cover Capacity Building**
  - Build capacity to generate 30 meter resolution land cover data from Landsat imagery
  - Provide training on interpreting, and utilizing land cover data for climate change reporting requirements (GHG, UNREDD+, LEDS).

- **Incorporate National and Regional Databases into high-resolution Global Land Cover Databases**

- **Funding from USAID Global Climate Change program**

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LC4Climate Scope

LC4Climate is partnering with ongoing initiatives in Africa and Southeast Asia to:

- Conduct technology assessment of existing land cover datasets

- Improve and apply appropriate methodology for local needs

- Host regional and national capacity building activities

- Facilitate participation of local expertise for enhancing global land cover initiatives

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Activities - Africa

- Focus on Regional Coordination
  - Africa
    - Co-hosted with RCMRD, UNEP, and Tsinghua Univ., the International Global Land Cover Workshop for Africa, June 25-27th, Nairobi, Kenya. Released Final Statement
    - Providing support to the GEO Working Group on Land Cover Mapping for Africa
    - Funding to USGS for production of 30 M resolution Global Land Cover for Eastern Africa
    - Upcoming Eastern Africa participatory workshop to evaluate USGS 30 meter land cover dataset(March 2014)
    - Planned: technical exchange with South Africa CSIR to improve methodology to incorporate WELD Landsat mosaics into the national land cover dataset revision process
    - Desire for increased collaboration with UNFCC GHG in West Africa for land cover reporting needs

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Eastern and Southern Africa Land Cover Evaluation Workshop

- March 10-14th in Nairobi at RCMRD

- Collaborative effort with USGS, RCMRD, and 10 countries
  - South Sudan, Uganda, Rwanda, Burundi, Tanzania, Malawi, Mozambique, Swaziland, Lesotho, and Kenya
  - Review USGS 30 meter Global Land Cover dataset with following classes:
    - (1) Closed Forest, (2) Open Forest, (3) Shrub lands, (4) Grasslands, (5) Croplands, (6) Barren, (7) Wetlands, and (8) Water Bodies
  - Develop plan to incorporate national and local data

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Activities- Southeast Asia

- Southeast Asia
  - Mekong River Commission (MRC)
    - Co-hosted with the MRC " Symposium on Applying Earth Observation Satellite Data to Monitor Land Cover Change in the Mekong Basin", Phnom Penh, August 20-21, 2013
      - 50 representatives from Laos, Thailand, Vietnam, Cambodia
      - Produced " Road Map" for future Land Cover Mapping Collaboration
      - Pending MOU between MRC and DOI ITAP

    - Co-hosted with the MRC "Technical training using the USGS Global Land Cover methodology, software and tools for Land cover mapping of the Mekong Basin" , Phnom Penh, August 22nd – 29th, 2013
      - 24 students from Thailand, Vietnam, Laos, Cambodia

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Activities- Southeast Asia

- Ongoing
    - Vietnam: Co-hosted with MONRE, Vietnam and Wageningen University, Remote Sensing (Optical and Radar) and Land Cover change training, December 2013, Hanoi
    - Funding to USGS for production of 30 meter resolution Global Land Cover for Lower Mekong River Basin
        - Coordinate with MRC to host workshop to review USGS product (Summer 2014)
    - Planned: Southeast Asia Symposium on status of Land Cover activities (in conjunction with Silva Carbon) (May 2014)
    - Continual coordination and support to UNREDD and UNFCCC GHG for land cover capacity training (USFS, USGS, USEPA)

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