

Spring LCLUC ST Meeting  
April 20 -22<sup>nd</sup>, 2010 Bethesda Marriott

*Tuesday April 20th*

**Introduction 8:30-9:20am**

- 8:30 State of the Program - Garik Gutman (NASA LCLUC)
- 9:00 LCLUC Program Coordination and Outreach - Chris Justice (NASA LCLUC)
- 9:10 US Global Change Research Program (USGCRP) LULCC and Land Use Interagency Working Group (LUIWG) Update- Nancy Cavallaro (USDA NIFA) and Jonathan Smith (USGS)

**LCLUC Research Overview Presentations 9:30-3:45pm** (30 minute presentations with 15 min for questions)

**LCLUC in MAIRS**

- 9:30 MAIRS Modeling- Atul Jain (University of Illinois, Urbana-Champaign) and Hanqin Tian (Auburn University)

*Coffee Break 10:15-10:30*

- 10:30 Chinese urbanization - Annemarie Schneider (University of Wisconsin-Madison) and Peilei Fan (Michigan State University)
- 11:15 Hotspots of LCLUC in Mainland South East Asia: causes and consequences- Jefferson Fox (East West Center)
- 12:00 Open Discussion

*Lunch 12:15-1:30*

**LCLUC in NEESPI**

- 1:30 LCLUC land changes and institutional drivers- Volker Radeloff , Mutlu Ozdogan (University of Wisconsin) and Kirsten DeBeurs (Virginia Polytechnic Institute and State University)
- 2:15 Human dimensions of land-cover land-use change in the Arctic with a focus on the Yamal Peninsula, Russia- Bruce Forbes (Arctic Centre, University of Lapland) and D.A. (Skip) Walker (University of Alaska Fairbanks) and Maribeth S. Murray (University of Alaska, Fairbanks)
- 3:00 LCLUC, humans and hydrology- Keith Eshleman (UMCES), Alexander Shiklomanov (UNH), Vladimir Aizen (University of Idaho) Sassan Saatchi (JPL NASA)

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*Coffee Break 3:45- 4:00*

**Breakout Groups on LCLUC topics 4:00-5:30pm**

1. Addressing Case Study Synthesis in the LCLUC Program- Jeff Fox and Dave Skole
2. Scoping Adaptation and Vulnerability Research in the LCLUC Program– Scott Goetz and Kirsten DeBeuers
3. LCLUC science needs for higher order Landsat class products - Jeff Masek and David Roy

**Poster Session and Reception 5:30- 7:00pm**

*Wednesday April 21st*

## **Report back from Breakout Groups 9:00- 10:00am**

- 9:00 Case Study Synthesis- Fox & Skole
- 9:15 Scoping Adaptation and Vulnerability - Goetz & DeBeurs
- 9:30 Landsat products- Masek & Roy
- 9:45 Discussion

*Coffee 10:00 -10:20*

## **LCLUC Educational Component: New Investigator Program (NIP) and NASA Earth and Space Science Fellowship (NESSF)**

- 10:20 Program Introduction – Garik Gutman (NASA HQ)

### **Fellowship Presentations**

- 10:40 Tropical Deforestation and the Land-Water Interface: Linking Land Use, Stream Connectivity, and the Health of Freshwater Fish Communities- Marcia Macedo (Columbia University)
- 10:50 Effects of Land Use Change on Fire, Vegetation and Wildlife Dynamics in Arid Grasslands of Southern Russia- Maxim Dubinin (University of Wisconsin, Madison)
- 11:00 From Vulnerability to Sustainability: Vulnerability and Sustainable Development in the Context of Climatic and Institutional Changes in Rural China- Qing Tian (University of Michigan)
- 11:10 Spectral Mixture Analysis of ASTER Images to Estimate Forest Biomass and Habitat – Van Kane (University of Washington)
- 11:20 Forest Insect Defoliation and Carbon Dynamics: Linking Remote Sensing with Simulation Modeling- Jane Foster (University of Wisconsin, Madison)

### **New Investigator Presentations**

- 11:30 Fire induced Changes in Albedo and the Associated Radiative Forcing: A Comparison of Boreal Canada and Australia Tropical Savannas - Yufang Jin (University of California- Irvine)
- 11:45 Leveraging Temporal Variation in Climate and Management Across National Parks In The Western U.S. To Characterize Three Decades Of Landscape Vegetation- Robert Kennedy (USDA Forest Service)

*Lunch 12:00-1:30*

*Group Photo- 1:30*

## **Project Status Report**

- 1:40 Global Land Survey Status and Plans – Jeff Masek (NASA GSCF)

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## **Landsat Project Reports**

- 2:00 Producing Composite Imagery and Forest Cover and Change Characterizations for the Humid Tropics - A Contribution to the MDGLS Activity - Matt Hansen (South Dakota State University)
- 2:20 Enhancing Global Observations and Information on Tropical Forest Change Using Landsat Global Data – David Skole (Michigan State University)
- 2:40 Three Decades of Forest Cover Change in the Americas Evaluated Using the Geocover and MDGLS Data Sets and Global Land Cover Change (LCLUC and Measures) - John Townshend (UMD)
- 3:00 Tropical Mangrove Forests: Global Distributions and Dynamics (1990-2005) - Chandra Giri (USGS)
- 3:20 Developing Land Cover Classification Products in Monsoon Asia Over the Period of 2004-2007 Through Integration of Landsat and ALOS/PALSAR Images - Xiangming Xiao (University of Oklahoma)

*Coffee 3:40- 4:00*

- 4:00 The WELD Project Status (Measures) - David Roy (South Dakota State University)
- 4:20 Open Discussion on LCLUC Data Initiative Priorities and Next Steps

*Day 2 Sessions End: 5:00pm*

*Thursday April 22*

## **LCLUC Observations**

### **Data Gap and Data Fusion Studies**

- 9:00 Evaluation and Comparison of the IRS-P6 AWiFS and the Landsat Sensors. - Gyanesh Chander (USGS EROS)
- 9:20 BRDF Impact in AWiFS data- Robert Ryan and Mary Pagnutti (Innovative Imaging and Research)
- 9:40 Data Gap Approach IRS AWiFS/ SPOT - Sam Goward, Nancy Thomas and Andrew Marx (UMD)

*Coffee Break 10:00- 10:20*

### **Landsat Class Observations and Follow-On Missions**

- 10:20 Landsat 5/7 and LDCM Status: instrument- Jim Irons (NASA GSFC)
- 10:40 Landsat Science Team and LDCM data processing plans – Curtis Woodcock (Boston University) & Tom Loveland (USGS EROS)
- 11:00 Beyond LDCM – Bryant Cramer (USGS)

### **Coordination of International Landsat Resolution Observations**

- 11:20 CEOS Land Surface Imaging Constellation: Update – Gyanesh Chander

### **Open Discussion 11:40-12:00**

- 12:00 Wrap Up Session and Close of Meeting – Garik Gutman

*Day 3 Session Ends, Lunch and Departure: 12:30pm*