

Spring NASA LCLUC ST Meeting
Tuesday March 31st – April 2nd
Bethesda North Marriott
(Version 02.02.09)

Day 1. Tuesday, March 31 9:00 am – 5:30 pm

Session 1. LCLUC Program Science 9:00 - 10:30 am

Program Status – Garik Gutman (NASA HQ)

Program Evolution and Future Directions – Chris Justice (University of Maryland)

The role of LCLUC in the Earth Science Division - Mike Freilich (NASA HQ)

Discussion

Coffee Break 10:30 – 11:00 am

Session 2. LCLUC Impacts on Environment and Climate 11:00 am- 12:30 pm
Review Presentations- 30 minutes each

-LCLUC Impacts on regional hydrology in Central Asia – G. Henebry (SDSU), Alexander Shiklomanov (University of New Hampshire), and Xubin Zeng (University of Arizona)

-LCLUC Impacts on Atmospheric Processes - Darla Munroe (Ohio State University) and Irina Sokolik (Georgia Institute of Technology)

-Linking Biophysics, Hydrology, Urbanization and Socio-economics in drylands - Mark Imhoff (GSFC), Lahouari Bounoua (GSFC) and Ron Smith (Yale) - 30 mins

Lunch 12:30 – 1:30pm

Session 3. LCLUC Impacts Review Presentations (Continued) 1:30-2:30 pm

- LCLUC Impacts in the Urban Environment – Philip Christenson (Arizona State University) , Christopher Small (Columbia University), Scott Goetz (WHRC), Laura Bowling (Purdue University), and Thomas Fisher (University of Maryland)

- LCLUC, Floods and Fires – Dan Brown (Michigan Univ.), Keith Eshelman (University of Maryland) and Alan Hope (San Diego State University)

Session 4. LBA Synthesis on LCLUC Review Presentations 2:30-3:30 pm

- Final Synthesis of LBA Program LCLUC- related findings– Michael Keller (Woods Hole Research Center), Eric Davidson (Woods Hole Research Center), and Steve Walsh (University of North Carolina)

- State of the Science: Land Use Modeling in Amazonia - R. Walker (MSU), D. Nepstad (Woods Hole Research Center), and E. Moran (Indiana University)

Coffee Break and Poster Session 3:30 – 5:30 pm

Session 5. Poster Session

Vladimir Aizen (University of Idaho) - Estimation of Seasonal Snow Cover and Glacial Area Changes in Central Asia (Tien Shan) During the Last 50 Years Using NASA ESE Products and In-Situ Data

Gyanesh Chander (USGS EROS)- Cross-Calibration of the Current Landsat Sensors with Foreign Landsat-Class Sensors for Long-Term Monitoring of Land Surface Processes

Bruce Davis (NASA Stennis) – Comparison of AWIFS and Landsat for LCLUC change detection products

Nancy French (Michigan Technological University) - Using remote sensing-based measures to assess NRCS impacts in Michigan 2005-2008

Anatoly Gitelson (University of Nebraska?)- Land Cover Land Use Change Effects on Surface Water Quality: Integrated MODIS and SeaWiFS Assessment of the Dnieper and Don River Basins and their Reservoirs

Andrew Hansen (Montana State University) - Vulnerability of US National Parks to Land Use and Climate Change and Variability

Catherine Kling (Iowa State University) - Drivers and Impacts of Agricultural Land Use Change

Jack Liu (Michigan State University)-Interactive Effects of Conservation and Development Policies on Land Cover and Panda Habitat in the Sichuan Giant Panda Sanctuary (China)

Shuguang Liu (Raytheon Systems Company)- Impact of Rapid Land-Use Change in the Northern Great Plains: Integrated Modeling of Land-Use Patterns, Biophysical Responses, Sustainability, and Economic and Environmental Consequences

Mutlu Ozdogan (University of Wisconsin) - Land-Use and Land-Cover Changes in Temperate Forests of European Russia: The Past, the Current, and the Future

Richard Lammers (University of New Hampshire) - Role of Land Cover and Land Use Change in Hydrology of Eurasian Pan-Arctic

Volker Radeloff (University of Wisconsin)

John Townshend (University of Maryland) - Three Decades of Forest Cover Change in the Americas Evaluated Using the Geocover and MDGLS Data Sets

Skip Walker (University of Alaska) - Application of Space-Based Technologies to Examine Land-Cover/Land-Use Change Along a Transect on the Yarnal Peninsula and Novaya Zemlya, Russia 2005 - 2008

Curtis Woodcock (Boston University)- Forest change and carbon in the Black Sea Region

Day 2. Wednesday, April 1 9:00 am – 5:30 pm
LCLUC Instruments, Observations and Products

Session 6. Program Presentations (20 minute presentations)

Land Climate Observation Needs	John Townshend (UMD)
National Climate Observation Needs	Jim Tucker USCCSP/GSFC
GOF/GOLD Program Update	Tony Janetos (PNL)
CEOS WGCV LP Validation Update	Joanne Nightingale (GSFC)
CEOS WGISS Update	Martha Maiden (NASA HQ)

Coffee Break 10:40 – 11:00 am

Session 7. Instruments and Products (20 minute presentations)

GLS Project Update	Jeff Masek (GSFC)
LDCM Instrument Update	Jim Irons (GSFC)
LDCM Science Team Issues and Priorities	Curtis Woodcock (BU) /Tom Loveland (USGS EROS)
Landsat 9 and the Landsat Data Gap	Bryant Cramer (USGS)

Open Discussion

Lunch 12:30 – 1:30 pm

EO1 LCLUC related Science Achievements	Betsy Middleton (GSFC)
MODIS Status: Instrument and Products	Robert Wolfe (GSFC)
NPOESS VIIRS for Land Studies	Chris Justice / Robert Wolfe

Coffee Break 3:00 – 3:30 pm

Decadal Survey Land Science Rationale and Plans Diane Wickland (HQ) 45 (mins)

Plenary open discussion on observation priorities and recommendations for NASA LCLUC Science (45 mins) Chair – Chris Justice (LCLUC/UMD)

Day 3. Thursday, April 2 9:00 am- 12:30 pm

Session 8. Future LCLUC science directions

-Position Presentation: The future direction for the human dimensions of NASA LCLUC – Billie Turner (Clark University), Emilio Moran (Indiana University), Dan Brown (University of Michigan), Chris Justice (University of Maryland) 30 minutes

Open Discussion

Review presentation: The future direction for LCLUC validation activities – Olga Krankina (Oregon State University) and Curtis Woodcock (Boston University) 30 minutes

Coffee Break 10.30 – 11.00

Summary of Workshop Results – Chris Justice and Stefania Korontzi (University of Maryland) (20 mins)

Open Discussion of Future Program Directions and Closing Remarks - Garik Gutman (LCLUC/HQ)

Lunch 12:30

End of Workshop