

LCLUC Spring Science Team Meeting 2012

April 3-5, 2012

Hilton Washington DC/Rockville
Hotel & Executive Meeting Center
1750 Rockville Pike, Rockville, MD 20852
(last update: 4/1/2012)

Day 1. April 3rd

Session 1. Introduction Session

9.00 – 9.30 Welcome and Program Status – Garik Gutman, NASA

9.30 – 9.45 Objectives of the Meeting and Agenda – Chris Justice, UMD

Session 2. Science of Urban Land Use Change (20 minute talks w. 5 mins for questions)

9.45 – 10.10 Using Landsat Global Land Survey Data to Measure and Monitor Worldwide Urbanization – Eric Brown de Colstoun, NASA GSFC

10.15-10.40 Invited Paper - Remote Sensing of the Urban Heat Island Effect Across Biomes in the Continental USA – M. Imhoff and L. Bounoua, NASA GSFC

10.40 – 11.10 Break

11.10 – 11.35 Monitoring and Modeling Urbanization: A Mixed Methods and Multi-Scale Approach – Annemarie Schneider, UW-Madison

11.35 – 12.00 Multi-Scale and Multi-Sensor Analysis of Urban Cluster Development and Agricultural Land Loss in India – Karen Seto, Stanford University

12.00 – 12.25 The Urban Theme in the MAIRS Program – Jianguo Qi, MSU

12.25 – 2.00 Lunch

2.00 Group Photo

Session 2. Science of Urban Land Use Change (Continued)

2.15 – 2.40 Mapping of Urban Expansion Using Multi-Decadal Landsat and Nightlights Data over North America – Cristina Milesi, NASA Ames

2.40 – 3.05 China's Urbanization and its Sustainability under Future Climate Change(Final Project Results) – Peilei Fan, MSU

3.05 – 3.30 Moscow and other Russian Cities During the Last Decade – Oganés Targulyan, Scanex

3.30 – 3.55 *Break*

3.55 – 4.20 Review of Advanced Techniques in Urban Remote Sensing: Manfred Ehlers, Institute for Geoinformatics and Remote Sensing, University of Osnabrueck

4.20 – 4.45 Review of final results – MEGAPOLI project – Alexander Baklanov, Danish Meteorological Institute (DMI)

4.45 – 5.10 Discussion- Trends in Urban Land Use Science – Chair: Annemarie Schneider

Session 3. Poster Session (w. rapid presentations) and Reception (5.30 – 7.30pm)

Day 2. April 4th

Session 4. LCLUC Modeling and Adaptation to Climate Change

9.00 – 9.15 Update on NRC Land Use Modeling Study and Land Use and Carbon Book – Dan Brown, University of Michigan

9.15 – 9.45 Invited Review Paper: Modeling strategies for Adaptation – Scott Goetz, Woods Hole Research Center (with input from Brown, Chen, De Beuers)

Session 5. Presentation of Project Final Results

9.45 – 10.15 Three decades of change in the Americas (Final Project Results) – John Townshend, UMD

10.15 – 10.45 *Break*

10.45 – 11.15 NEESPI Update – Pavel Groisman, UCAR, NOAA

11.15-11.45 Discussion- NEESPI Next Steps – Chair: Garik Gutman

11.45 – 12.10 Update on Landsat-8, Post-LDCM Years and Landsat-Sentinel-2 synergy – Jeff Masek, NASA GSFC

12.10 – 2.00 *Lunch and Poster Review*

Session 5 Cont'd. Presentation of Project Final Results and Invited Review Papers

2.00– 2.30 Assimilation of Tower and Satellite-Based Methane Observations for Improved Estimation of Methane Fluxes over Northern Eurasia (Final Project Results) – Dennis Lettenmaier, University of Washington

2.30– 3.00 Northern Eurasian Landscapes: Interactions between Humans, Hydrology, Land

Cover and Land Use (Final Project Results) – Alexander Shiklomanov, University of New Hampshire

3.00 – 3.30 Invited Review Paper - Central Asia LCLUC, Hydrology and Climate – Mutlu Ozdogan UW-Madison, (w. input from Jiquan Chen and Dan Brown)

3.30 – 4.00 Impacts of Land Cover and Land Use Change on Water and Energy Cycle in Caspian Sea Drainage Basin – Sasan Saatchi, California Institute of Technology

End of Day 2

Day 3. April 5th

Session 6. LCLUC Case Study Synthesis Initiatives

9.00 – 9.15 Goals for LCLUC Synthesis Studies – Garik Gutman

9.15 – 10.15 Breakout Group Discussion on LCLUC Synthesis and LCLUC Social Science.
Discussion Group Leads: Volker Radeloff, Kathleen Bergen and Karen Seto

10.15 – 10.45 Plenary Discussion

10.45 -11.15 Break

Wrap Up Session

11.15 – 11.45 Emerging Science Directions for the LCLUC Program and Discussion - Chris Justice

11.45 – 12.15 Concluding Program Remarks – Garik Gutman

End of Meeting