

LCLUC ST Meeting Temperate and Boreal Agenda
October 29-31, 2001

Day 1 October 29th

- 9:00 Welcome, objectives for the meeting, Status of LCLUC within NASA, Reporting and review – Garik Gutman (NASA HQ)
- 9:20 National and International context– Chris Justice (UMd), Richard Moss (USGCRP)
- 9:40 State of LUCC – Bill McConnell (Indiana U.)

10:00 – 10:30 Break

10:30 – 12:00 Results Presentations (30 mins)

- 10:30 Andy Hansen (Montana State U.)
Monitoring Forest Response to Past and Future Global Change in Greater Yellowstone
- 11:00 Marc Imhoff (NASA GSFC)
Measuring Human Impacts On The Biodiversity And Carrying Capacity Of Ecosystems: Combining Remotely-Sensed Data With Species Distributions To Identify Conservation Priorities
- 11:30 Chris Elvidge (NOAA)
Development Sprawl Impacts on the Terrestrial Carbon Dynamics of the United States

12:00 – 1:15 Lunch 1:15 Group Photo

1:30 – 3:00 Results Presentations

- 1:30 Susan Conard, Doug McRae (USFS)
Modeling and Monitoring Effects of Area Burned and Fire Severity on Carbon Cycling, Emissions, and Forest Health and Sustainability in Central Siberia
- 2:00 John Rogan (San Diego State U.)
Operational Monitoring of Alteration in Regional Forest Cover Using Multitemporal Remote Sensing Data
- 2:30 Peng Gong (U of C, Berkeley)
Development of Long Term Inventory of Fire Burned Areas and Emissions of North America's Boreal and Temperate Forests

Afternoon Tea 3:00 – 3:30

3:30 – 5:00 Results Presentations

- 3:30 Gordan Bonan (NCAR)
Effects of Land-Use on Climate and Water Resources: Application of a Land Surface Model for Land-Use Management
- 4:00 Kyle McDonald (NASA JPL)
Monitoring Boreal Landcover and Ecosystem Dynamics at Regional Scales using Integrated Spaceborne Radar Remote Sensing and Ecological Modeling
- 4:30 Rasim Latifovic (NRCAN)
Satellite Observation of Boreal Land Cover: Methods, Data Sets and Applications

Day 2 October 30th

9:00 NASA's Scientific Data Purchase Project – Rose Fletcher (Lockheed Martin)

9:20 Landsat Continuity Data Mission – Jim Irons (NASA GSFC)

9:40 AVIRIS update – Rob Green (NASA JPL)

10:00 – 10:30 *Coffee break & hang posters*

10:30 – 12:00 Results Presentations (30 mins)

- 10:30 Guoqing Sun - Siberian Project Report (UMd)
- 11:00 Tom Loveland (USGS)
The Spatial and Temporal Dimensions of Contemporary U.S. Land Cover and Land Use Change and Implications for Carbon Dynamics
- 11:30 Scot Smith (U of Florida)
Land-Use and Land-Cover Change: Decadal-Scale Dynamics of Carbon Storage Patterns as a Function of Land Ownership in the Southeastern Lower Coastal Plain Region of the U.S.

12:00 – 1:00 *Lunch & finish hanging posters*

1:00– 3:00 Poster Session

- Lorretta Johnson (Kansas State U.)
Scaling Up the Ecosystem Consequences of Forest Expansion in the Great Plains Region: A Renewal Proposal
- Ryan Kirk (U of Minnesota)
Land Use and Water in the Uplands of Southeastern North America
- Allen Hope (San Diego State U.)
Fire, Land Cover and Climate Change: Impacts on River Flows in Semiarid Shrubland Watersheds
- Ron Lacey, Urs Kreuter (Texas A&M)
Effects of Urbanization on Ecological Services in a Semi-arid Region of the United States
- Olga Krankina (Oregon State U.)
Driving Forces of Change in Regional Carbon Stocks: Comparison of the Western Oregon, USA and St. Petersburg Region, Russia
- Tom Fisher (UMd, Horn Point)
Effect of Land Use, Soils, and Human Populations on Export of Water, C, N, and P from the Mid-Atlantic Coastal Plain
- Scott Goetz, Nancy Bockstael (UMd)
Spatial Predictive Modeling and Remote Sensing of Land Use Change in the Chesapeake Bay Watershed
- Kathleen Bergen (U of Michigan)
Modeling Siberian Boreal Forest Land-Cover Change and Carbon under Changing Economic Paradigms
- Anatoly Gitelson (U of Nebraska)
Consequences of Institutional Change: Land-cover Dynamics in Kazakhstan 1960-2000

- Dan Brown (U of Michigan)
Developing Land Cover Scenarios in Metropolitan and Non-Metropolitan Michigan, USA: A Stochastic Simulation Approach
- Xiangming Xiao (Colorado State U.)
Land-Use Change in Temperate East Asia: Land Cover Changes Impacts on Carbon Fluxes and Land Productivity
- John Mustard, et al. (Brown)
Landscape Dynamics and Land-Use Land-Cover Change in the Great Basin-Mojave Desert Region
- Carol Wessman (U of C, Boulder)
Regional NPP and Carbon Stocks in Southwestern USA Rangelands: Land-Use Impacts on the Grassland-Woodland Balance
- Dave McGuire, Dave Verbyla (U of A, Fairbanks)
The Role of Land Cover Change in High Latitude Ecosystems: Implications for Carbon Budgets of North American
- Skee Houghton (WHRC)
Changes in Terrestrial Carbon Storage in Russia as a Result of Land-Use Change
- Yeqiao Wang (U of Rhode Island)
Land Use and Land Cover Change in Metropolitan Chicago and the Dynamic Impact Simulation
- Richard Conant (Colorado State U.)
Grazingland Management Impacts on Light Use Efficiency
- Andy Hansen (Montana State U.)
Land Use Change Around Protected Areas in LCLUC Sites: Synthesis of Rates, Consequences for Biodiversity, and Monitoring Strategies
- Brian Markham (NASA GSFC)
Landsat Radiometric Calibration: Towards a 20-Year Record of Calibrated Thematic Mapper Class Data for Carbon Cycle Studies

(At the beginning of the poster session, presenters will be asked to give a brief presentation in the order above (2 min per poster) to introduce themselves & their topic)

3:00 – 5:30 Results Presentation

- 3:30 Guoqing Sun (UMd)
Monitoring Forest Dynamics in Northeastern China in Support of GOF C
- 4:00 Youngsinn Sohn (UMd, Baltimore)
A Comparative Study of Forest Mapping Methods/Algorithms: Towards Optimal Solutions for Operational Global Forest Mapping/Monitoring
- 4:30 Ruth DeFries (UMd)
Towards Methodologies for Global Monitoring of Forest Cover Characteristics with Coarse Resolution Data
- 5:00 John Townshend (UMd)
Improvements in Landsat Pathfinder methods for monitoring tropical deforestation and their extension to extra-tropical areas

DAY 3 October 31st

9:00 NASA Carbon Initiative – Forrest Hall (NASA GSFC)

9:20 Proposal for North Eurasian Initiative – Don Deering (NASA GSFC)

9:40 Summary of EO-1 Science Team Activities – Phil Townsend (UMCES)

10:00 – 10:25 Coffee Break

10:25 – 11:10 Open Discussion Session

- LCLUC Program Goals, Priority Research Directions and Activities for LCLUC
- Results Packaging
- The LCLUC Book

11:10 Meeting Wrap Up and Program Feedback – Chris Justice/Garik Gutman

11:40 Close of Workshop