

International LCLUC Regional Science Meeting in Central Europe

Sopron, Hungary 16-22nd October 2014



Land-Cover and Land-Use Change Program



AGENDA

DAY 1 (16 OCTOBER, THURSDAY)

9:00-10:10 Introduction session

Welcome addresses

- 9:00 University Dean - Ferenc Lakatos (U. of West Hungary)
- 9:10 Local host - Éva Konkoly-Gyuró (U. of West Hungary)
- 9:20 NASA LCLUC Program Manager - Garik Gutman (NASA HQ)
- 9:30 Objectives of the Meeting - Chris Justice (U. of Maryland College Park)

Keynote Presentation

- 9:45 The importance of LU Change in Central Europe - Thomas Wrška (U. of Vienna)

10:10-12:30 Technical Session-I: Regional & National Land-Use and Land-Cover Change Science Initiatives
Chair: **Csaba Mátyás**

- 10:10 The NASA LCLUC science: Focus on Central/Eastern Europe – Garik Gutman (NASA HQ)

10:30-11:00 Tea Break

- 11:00 LCLUC-related initiatives at the University of West Hungary - Éva Konkoly-Gyuró (U. of West Hungary)
- 11:20 European land monitoring activities in the framework of the Copernicus Programme - György Büttner (EEA)
- 11:40 LCLUC in Eastern Europe - Volker Radeloff (U. Wisconsin)
- 12:00 LCLUC in Carpathians during the last 200 years - Catalina Munteanu (U. Wisconsin)
- 12:20 Summary of the SCERIN meeting in Krakow - Katarzyna Ostapowicz (Jagiellonian U.)

12:40-1:40 Lunch

1:40 – 3:00 Technical Session – II. Agricultural Monitoring and Land-Use Change
Chair: **Chris Justice**

- 1:40 The International GEOGLAM Program – Chris Justice (U. Maryland College Park)

- 2:00 MePAR – the Hungarian land parcel identification system and its LU/LC layer –István László (FÖMI)
- 2:20 Potential of Google Earth Engine in agricultural mapping and monitoring applications in Eastern-Europe - Guido Lemoine (JRC)
- 2:40 Land abandonment and re-cultivation in Central and Eastern Europe - Patrick Hostert (Humboldt U.)
- 3:00 Drivers of LCLUC in Temperate Eastern Europe – Alexander Prischepov (IAMO)

3:20 – 3:50 *Tea Break*

3:50 – 5:10 Technical Session – III. Carbon and Water
 Chair: **Serge Ivanov**

- 3:50 Land Use Change and regional carbon budgets - Mutlu Ozdogan (U. Wisconsin)
- 4:10 Hydrological changes and human activity - Alex Shiklomanov (U. New Hampshire)
- 4:30 Changes in deltas of Eastern Europe -Vladimir Starodubtsev (State University, Ukraine)
- 4:50 Land management changes and impact of extreme droughts in European Russia - Tatiana Loboda (U. Maryland)
- 5:10 Remote sensing based evapotranspiration mapping - József Szilágyi (Technical U. Budapest)

5:30 – 5:45 Poster Introductions (1-minute overviews)

- 5:45 Poster viewing followed by Adjourn

7:00 *Welcome dinner at the Hotel Pannónia*

DAY 2 (OCT 17 - FRIDAY)

9:00-10:30 Technical Session - III. Climate change - LCLUC interactions: Local projects
 Chair: **Éva Konkoly-Gyuró**

Keynote Presentation

- 9:00 Climate - Land Cover interactions and impacts in South Central Europe – Csaba Mátyás (U. Western Hungary)
- 9:30 Impact of forest on climate change- Borbála Gálos (U. of West Hungary)
- 9:50 Monitoring forests in Hungary based on multi-scale remote sensing data and its interactions with climate change - Géza Király, Kornél Czimmer et al. (U. of West Hungary)

10:10 Assessment of the connection between drought and agricultural land use changes in Hungary - Peter Szilassi (U. of Szeged Hungary)

10:30-11:00 Tea Break

11:00-12:40 Technical Session - IV: Urban LCLUC in Central and Eastern Europe
Chair: **Premek Stych**

11:00 Urban LCLUC in Central and Eastern Europe - Cheng Huang (U. Maryland) and Eric Brown de Colstoun (NASA HQ)

11:20 Measuring green space intensity and its changes in Budapest with NDVI - Sándor Jombach, Péter Gábor, László Kollányi (Corvinus U. of Budapest)

11:40 Urban and Peri-urban changes across Eastern Europe - Premek Stych (Charles U.)

12:00 Methodological questions on the Land cover change of the urban areas in Szeged Hungary - Laszló Mucsi (U. of Szeged Hungary)

12:20 Nighttime remote sensing for Urban LCLUC studies - Chris Elvidge (NOAA) (Remote presentation via Skype)

12:40-1:40 Lunch

1:40-4:30 Technical Session V. LCLUC, Earth Observations (Missions, Data, Products and Applications)
Chair: **Garik Gutman**

1:40 NASA Missions and LCLUC – Garik Gutman – (NASA HQ)

2:00 Land Products from Suomi NPP VIIRS instrument – Ivan Csiszar (NOAA)

2:20 Bottom-up initiatives and development of new European data model for land monitoring - results of the HELM project and the EAGLE working group - Gergely Maucha and Barbara Kosztra (FÖMI)

2:40 GOFC GOLD LCLUC activities in the European Union – Brice Mora (GOFC LC-IT Office)

3:00 Anthropogenic fires in Central Europe - Jessica McCarty (Michigan Tech. U).

3:20-3:50 Tea Break

3:50 Satellite data processing and analysis: examples and practical considerations - Dániel Kristóf (FÖMI)

4:10 Validation and verification of land cover data – Gergely Maucha (FÖMI)

4:30-5:00 Synthesis and Discussion (Moderator Chris Justice and Rapporteur Krishna Vadrevu, University of Maryland)

5:00 – 5:20 Summary and Meeting wrap-up- Garik Gutman / Éva Konkoly-Gyuró

6.00 City tour optional (On your own)

DAY 3 (OCT 18 – SATURDAY)

Field trip- LCLUC around Sopron and Lake Fertő in a world heritage cultural landscape

DAY 4 (OCT 19 – SUNDAY)

9:00 – 12:00 Book session (closed session for the book contributors)
10 Chapter Leads: Discussion of each chapter status

DAY 5 (OCT 20 – MONDAY)

Training Geospatial Tools: Remote Sensing, Data, and Products: Methods, Modeling and Interpretation

9:30-10:00 Garik Gutman (NASA HQ) - Welcome address and Lecture on Land Remote Sensing: Potential and Limitations

10-12:00 Jianguo Qi (MSU, USA) - Introduction to Remote sensing and Change Detection

12:00-1:00 *Lunch*

1:00-3:00 Chengquan Huang (UMd, USA) - LCLUC Data Processing from Landsat

3:00-5:00 Tatiana Loboda (UMd, USA) - LCLUC Applications Using MODIS datasets

DAY 6 (OCT 21 - TUESDAY)

Training continues

10-12:00 Brice Mora (GOFCL Land Cover IT, Wageningen U) - Forest Cover Change Detection using an Open Source Time-series Analysis Algorithm with Landsat data

12:00-1:00 *Lunch*

1:00-3:00 Chris Stewart (ESA) - Access to and use of ESA products

3:00-5:00 TBD

DAY 7 (OCT 22 - WEDNESDAY)

Training continues

10-12:00 TBD

12:00-1:00 *Lunch*

1:00-3:00 Jessica Mc Carty (MTRI, USA) - NASA fire products

3:00-5:00 Krishna Vadrevu (UMd, USA) - LCLUC and Atmospheric remote sensing products

Scientific program Committee

Dr. Volker Radeloff, University of Wisconsin-Madison, USA

Dr. Garik Gutman, LCLUC Program Manager, NASA Headquarters, USA

Dr. Chris Justice, University of Maryland College Park, USA

Dr. Éva Konkoly-Gyuró, U. Western Hungary

Dr. Krishna Vadrevu, University of Maryland College Park, USA

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START - GOFC/GOLD