

South Central & Eastern European Regional Information Network (SCERIN)

SCERIN-1 Meeting

"Monitoring Land Cover Changes & Forest Condition"

SCERIN Network Coordinators

Petya Campbell (JCET/UMBC & GSFC/NASA)

Jana Albrechtova, Lucie Kupkova and Premysl Stych (Charles University in Prague), Regional Contacts & SCERIN-1 HOSTS

Sponsors: GOFC-GOLD, START, NASA, ESA, CU & **YOU**



17-18 June 2013, Faculty of Science, Charles University, Prague, Czech Republic

SCERIN-1 Day 1, Monday, 17 June 2013

8:00 – 9:00 **Registration, Introductions & Meeting logistics**

- 9:00 Welcome remarks [*Jakub Langhammer, Vice Dean of Faculty of Sci., CU; Jana Albrechtova, CU*]
- 9:20 The NASA LCLUC program & GOFC-GOLD SCERIN [*Garik Gutman, NASA*]
- 9:40 The GOFC-GOLD networks [*Olga Krankina, OSU*]
- 10:00 The SCERIN network, focus groups, meeting goals & agenda [*Petya Campbell, UMBC & NASA/GSFC*]

10:20-10:40 **Break, Coffee/Water**

- 10:40 GOFC-GOLD implementation teams, GEO LCLCC [*Brice Mora, GOFC-GOLD, EU*]
- 11:00 Land use changes in Czechia evaluated by data from cadastral evidence (1845 - 1896 - 1948 - 1990 - 2010) [*Ivan Bičík, IGU LC/LUC, CZ*]
- 11:20 ESA Earth Observation program and results [*Francesco Sarti, ESA, EU - Italy*]
- 11:40 GEOSS Activities [*Jan Kolar, Faculty of Science, Charles University in Prague*]

12:00 Group Picture in front of the building of the Faculty of Science

12:15 – 13:00 **Lunch [room 371]**

SCERIN-1 Day 1, Monday, 17 June 2013

Session 1: Forest condition, disturbance & biomass [*Lucie Kupková / Gregory Taff*]

- 13:00 Assessment of forest decline and forest regeneration process from combined space/airborne data [*Frantisek Zemek, CzechGlobe*]
- 13:20 Remote sensing of forests and forest fires in Europe [*Lorenzo Busetto, JRC/EU*]
- 13:40 Monitoring Norway spruce forest conditions using hyperspectral data [*Jana Albrechtová, CU Prague & Petya Campbell, UMBC & NASA/GSFC*]
- 14:00 Vegetation mapping of the High Tatras and the Karkonosze Mts. using hyperspectral images and neural networks [*Bogdan Zagajewski, University of Warsaw/Poland*]
- 14:20 Legal and illegal clear cutting of forest detection on Landsat imagery: a case study in Romania [*Vladimir Gancz, Forest Research and Management Institute, Voluntary, Romania*]
- 14:40 **Questions & discussion**
- 15:00-15:30 **Break, Coffee/Water**

SCERIN-1 Day 1, Monday, 17 June 2013

Session 2: Land Cover Changes [*Levent Genc/Andrej Halabuk*]

15:30 GMES European Continental Mapping & Monitoring [*Lukáš Brodský, GISAT*]

15:45 Land Use and land Cover Change around Çanakkale (Dardanelles) Strait using Landsat Data: 1987-2011 [*Levent Genc, CSM University / Turkey*]

16:05 Land cover and land use change and its consequences: detection and simulation [*Katarzyna Ostapowicz / Poland*]

16:25 Hyperspectral projects for LCLUC in the post-mining area of the Sokolov Region [*Veronika Kopačková, Czech Geological Survey*]

16:40 Land use and land cover changes in the Carpathian Basin. Experiences in the vectorisation of the archive maps [*Géza Király / Hungary*]

17:00 Remote sensing in invasive plant ecology: Detection, monitoring and control of alien plant species [*Jana Müllerová, N. Ďurič, Petr Pyšek, Jan Pergl / Czech Republic*]

17:15 GEONETCAB project: GeoNetwork for Capacity Building, FP7 [*Lucie Kupková/Premysl Stych, CU*]

17:30 ***Questions & discussion***

SCERIN-1 Day 1, Monday, 17 June 2013

18:00 SCERIN-1 Day 1, Adjourn

Reception at the CU Botanical garden [Na Slupi 16, Prague; Hosted by the Faculty of Science, Charles University - Jana Albrechtova & colleagues]

- visit the garden & green houses of Charles University, Prague & informally get to know your SCERIN colleagues & our hosts
- open tropical greenhouses to relax with a music of the group 'TEMPERAMENT 430' playing Baroque and Renaissance music on original instruments
- snacks/water available out of the greenhouses



SCERIN-1 Day 2, Tuesday, 18 June 2013

8:30 – 9:00 Registration, coffee [Room 371]

Session 3: SCERIN Special topics *[Room 373, Géza Király/Brice Mora]*

8:45 Land cover and land cover change detection at national level - An example from Greece *[Ioannis Gitas /EU- Greece]*

9:00 Aerospace test sites on the territory of Bulgaria - state & prospects *[Lachezar Filchev, SRTI-BAS/Bulgaria]*

9:15 Land cover changes in river deltas of the Black Sea basin *[V. Starodubtsev, UKR]*

9:30 Monitoring of grassland management practices by using multitemporal classification of Landsat & Modis *[Andrej Halabuk, Institute of Landscape Ecology, Slovak Academy of Sciences, Nitra, Slovakia]*

9:45 High-Resolution Global Monitoring of Urban Settlements *[Mattia Marconcini / DLR, G]*

10:00 Urban Remote Sensing & Object-Based Image Analysis *[Levente Ronczyk]*

10:15 *Questions & discussion*

10:30-11:00 Break, Coffee/Water

Session 3: SCERIN Special topics - continued *[Vladimir Gancz/Bogdan Zagajewski]*

11:00 Using land surface phenologies for change analysis *[Geoffrey M. Henebry, GIScCE/SDSU]*

11:20 Reforestation in Central and Eastern Europe after the breakdown of socialism *[Gregory Taff, Norwegian Forestry Landscape Institute]*

11:40 Broad scale LCLUC in Eastern Europe: patterns, drivers and effects *[Catalina Muntenan, UW]*

12:00 *Questions & discussion*

12:00 – 13:00 Lunch

SCERIN-1 Day 2, Tuesday, 18 June 2013

Session 4: SCERIN Focus Groups (FGs) [*Olga Krankina / Petya Campbell*]

13:00 FG1: Forest monitoring - disturbances, health and biomass [*Frantisek Zemek/Bogdan Zagajewski/ Jana Albrechtova*]

14:00 FG2: Land Cover Changes: agricultural land abandonment, urban expansion [*Lucie Kupková/Premysl Stych/Levent Genc*]

15:00 Formation of FGs & discussions of SCERIN “hot topics” [*Everyone, Krankina/Campbell*]

15:30-16:00

Break, Coffee/Water

Instructions for the Scientific field trip on June 19 (Wednesday) 2013 [*Hosts & Trip Coordinators*]

SCERIN-2 Next venue

Concluding remarks

18:00 SCERIN-1 Meeting Adjourns



coal mine Jiri



Litav dump

SCERIN-1 Day 3, Wednesday, 19 June 2013

Scientific Field Trip: „*LCLUC in Sokolov Region in Northwestern Bohemia affected by mining activities*“



sandpit Erika



lake Medard