



SCERIN-5, Pecs, Hungary, June 20-23, 2017

Land cover changes and natural hazards - integrated forest / watershed management for environmental, economic and political stability

The capacity building workshop SCERIN-5 will focus on the land cover changes, natural hazards and their management on an integrated watershed and regional level. Research topics of regional interest to address include: ecosystem dynamics based on Landsat and Sentinel archives, and forest growth, health and insect infestation detection and monitoring - both of increasing importance in the context of climate change. The workshop will be held in coordination with a Trans-Atlantic Training and the activities are jointly sponsored by our Hungarian Hosts, NASA, ESA and START.

SCERIN-5 Capacity Building Workshop: Agenda at a Glance

Day	Mon	Tue	Wed	Thu	Fri*	Sat
Date	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun
Event	Arrival	day 1	day 2	day 3*	day 4	Departure

* Field trip

The goals of SCERIN in 2017 and SCERIN-5 Capacity Building Workshop in Pecs, Hungary are:

- 1) to inform about ongoing major scientific efforts addressing LCC characterization, and discuss projects with contribution and possible joined activities of the SCERIN participants; and
- 2) to outline progress on the initiated validation activities toward peer review publications, and foster new ideas for regional collaborative research by the participants.

The workshop will outline the activities to be completed by SCERIN within the following year.

SCERIN Focus Groups (FG):

- FG1: Forest monitoring
- FG2: Land cover changes
- FG3: Validation/verification network

Hosts: The event will be hosted by University of Pécs, Faculty of Sciences, Institute of Geography with a main host and contact Dr. Levente Ronczyk (contact information below). The host address and contact information include:

- The University of Pécs, represented by Levente Ronczyk (Ifjuság street 6, 7624 Pécs, Hungary; h2o@gamma.ttk.pte.hu). This is our primary host and organizer.
- The Regional Committee of the Hungarian Academy of Sciences at Pécs, represented by István Fodor (Jurisics M. 44, 7624 Pécs, Hungary; fodor@rkk.hu). SCERIN-5 CBW will be hosted at their conference facility.
- MECSEK FORESTRY Co. Ltd., Danube Drava National Park, Old Drava Office, Zsolnay Heritage Management Nonprofit Ltd.

The Organizers of SCERIN-5 include the Hungarian Hosts (above), Petya Campbell, Jana Albrechtova, Lucie Kupkova, Senay Habtezion and Garik Gutman.

Instructions for oral presentations: Please, design your talk in a manner to live 25 % of your time for discussion within your allocated time in the time schedule (i.e. if your presentation is scheduled for 20 min, please, design it for 15 min to allow 5 minutes of questions and discussion – THANKS!).

Instructions for SCERIN Project Inventory Panel – one slide listing for your institution:

Project/Program	Sponsor	Duration	Support (funding level)
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During the panel you will tell us the objectives, and how they relate to SCERIN.

Time	6/20/2017 Tuesday	
	SCERIN-5 Day 1	Presenter
8:30	<i>Registration & Logistics</i>	
	Plenary Session (<i>Session Chair: DénesLóczy;Records: Petya Campbell – Lectures</i>)	
8:45	Opening SCERIN-5 Goals and Agenda	Petya Campbell and Jana Albrechtova, SCERIN coordinators
9:00	Welcome Addresses of the Hosts	Róbert Gabriel, Dean of Faculty of Sciences, UP
		LászlóLénárd, HAS (Hungarian Academy of Science)
		DénesLóczy , UP (Institute of Geography)
9:15	The NASA LCLUC Program Support of GOFC-GOLD Networks – an Update: <i>Focus on Europe</i>	Garik Gutman, NASA/HQ
9:35	Regional Information and Knowledge Networks – Reflections on capacity building under GOFC-GOLD	Senay Habtezion, START
9:55	<i>Key note from hosting organization: Land cover and land use change in Hungary</i>	DénesLóczy, UP
10:15	<i>Coffee Break and Picture(25 min)</i>	
	SCERIN Invited talks (<i>Session Chair: Jana Albrechtova, Records:Petya Campbell</i>)	
10:40	Harmonizing Landsat and Sentinel-2 time series	Jeff Masek, NASA/GSFC
11:00	Sentinels statusand latest results	Gordon Campbell, ESA
11:20	The synergetic use of SARand optical time-series for agricultural and forest application	Francesco Holecz, SarMap
11:40	IIASA Ecosystem Services and Management Program experience in the field of LCLUC	Dmitry Schepaschenko, ESM/IIASA
12:00	Briefingon Land-cover classification in the cloud using Google Earth Engine	Noel Gorelick, Google Inc.
12:20	<i>Working Lunch (1hr 10 min, sponsors HP)</i>	
	Research Highlights Hungary (<i>Session Chair:DénesLóczy, Records: Petya Campbell</i>)	
13:30	Main Activities of the Hungarian Space Office	IstványErényi, Hungarian Space Office
13:45	Farm support via crop yield measurements by satellite data	GáborCsornai, Cosima LTD
14:00	Recent Applications of Remote Sensing in Forestry at the University of Sopron	KornélCzimer, University of Sopron
14:15	Research and User Support (RUS) on-the-cloud	Brice Mora, CS
14:30	SCERIN Research Highlights: poster speed talks (<i>Session Chair: Lucie Kupkova; Records: Petya Campbell</i> ; list - next page, each 2 min, 1-2 slides to supply in advance before lunch)	
15:30	<i>Questions & Discussion, Coffee Break and Viewing of Posters (90 min)</i>	
16:30	<i>Adjourn</i>	
18:00	<i>Networking Reception (Academy, sponsor START)</i>	

6/20/2017 Tuesday(Day 1)

Posters speed talks(2 minutes for the highlights)

First Name	Last Name	Focus Group (FG)	Title
Ivan	Barton	FG1: Forest monitoring	Treefall gap detection on Sentinel-2A satellite images in the Börzsöny mountains
Lachezar	Filchev	FG1: Forest monitoring	Estimating forest cover changes in Bulgaria using ALOS-PALSAR data
Mihai Daniel	Nita	FG1: Forest monitoring	Massive forest harvests following World War II revealed by historical Corona spy imagery
Rumiana	Vatseva	FG1: Forest monitoring	LCC in Bansko ski resort, BG in the period 2000 - 2016 based on remote sensing data
Noémi	Eóry	FG2: Land Cover Changes	Waste Deposition Detection - 1st steps of a development project
Bejan	Iurii	FG2: Land Cover Changes	The land use / land cover change in Botna river basin
Stanisław	Lewiński	FG2: Land Cover Changes	Automatic selection of classification thresholds for change detection in land cover
Minučer	Mesaroš	FG2: Land Cover Changes	Land cover change analysis for environmental pressure evaluation in protected areas in Serbia
Mykola	Meretskyi	FG2: Land Cover Changes	Assessment of various satellite band combinations and resolution for crop classification accuracy
Ivica	Milevski	FG2: Land Cover Changes	Landcover changes vs erosion rate in upper Bregalnica Catchment (Macedonia, FYR)
Brice	Mora	FG2: Land Cover Changes	Sentinel 2 for Agriculture
Mátyás	Rada	FG2: Land Cover Changes	Experimental Landsat-8, Sentinel-2 and Sentinel-1 Synergy for 30-m Land Cover Mapping
Luka	Rumora	FG2: Land Cover Changes	Vegetation detection using video data
Volodymyr	Starodubtsev	FG2: Land Cover Changes	Land degradation in river deltas under anthropogenic pressure
Premysl	Stych	FG2: Land Cover Changes	Overview of changes in land use and land cover in Eastern Europe
Rumiana	Vatseva	FG2: Land Cover Changes	Mapping urban green spaces based on Sentinel-2A satellite imagery
Jana	Albrechtova	FG3: Validation/verification	GLC Products Validation and Inter-Comparison in South Central and Eastern Europe (SCERIN)
Monika	Tomaszewska	FG3: Validation/verification	Modelling land surface phenology and seasonality in highland pastures in the Kyrgyz
Tatjana	Veljanovski	FG3: Validation/verification	Automatic object based LCLUC generation from high resolution satellite data
Katia	Benet	FG3: Validation/verification	USA Science hub activities, Budapest,HU

Time	6/21/2017 Wednesday	
	SCERIN-5 Day 2	Presenter's Name
Working Sessions (WS) of the SCERIN Focus groups on the joint papers: detailed overview by leaders, discussion topics*, schedule for paper finishing (<i>Session chair: Petya Campbell, Records: Leaders of WS1-3</i>)		
9:00	WS1 Global/ Continental land cover products validation and inter-comparison in the SCERIN area	Manakos (lead)
9:20	WS2 Assessing the causes of CORINE LU/LCC	Taff (lead)
9:40	WS3 status of GIMMS NDVI analysis in SCERIN	Pilas (lead)
10:00	<i>Discussions of the topics provided by WS leaders*</i>	
10:30	<i>Coffee Break and Posters (30 min)</i>	
11:00	Discussions in parallel working sessions (WS1 – room TBD, WS2 – room TBD, and WS3 – room TBD), records will be assured by the WS lead	
12:15	<i>Working Lunch (1hr 15 min, sponsors HP)</i>	
13:30	SCERIN Countries and Programs Inventory Panel (<i>Session Chair: Petya Campbell, Each SCERIN institution should supply 1 slide based on .ppttemplate¹:Bulgaria, Croatia, Czech Republic, Greece, Hungary, FYR Macedonia, Moldova, Poland, Romania, Serbia, Slovakia, Slovenia, Ukraine</i>)	
	Advanced Methods (<i>Session chair:Gregory Taff; Records:Petya Campbell; 15 minutes each</i>)	
14:00	Large area land cover change in SE Europe	Mutlu Ozdogan
14:15	Global LC mapping based on Sentinel-2 data	Stanislaw Lewinski
14:30	Remote sensing and ecosystem function of low-land floodplain forests – potential for SCERIN collaboration	Ivan Pilas
14:45	<i>Coffee Break and Posters (20 min)</i>	
Research highlights in SCERIN region (Session chair: Petya Campbell; Records: Mutlu Ozdogan; 10 minutes each)		
15:05	EOs improving ecosystem benefits: ECOPOTENTIAL Activities in the SCERIN Protected Areas	Ioannis Manakos
15:15	Remote sensing and GIS analyses in identification of potential water vulnerable zones on arable land	Frantisek Zemek
15:25	Monitoring of tundra vegetation in the Krkonoše Mts. using multispectral and hyperspectral data	Lucie Kupkova
15:35	Composite indicator for monitoring of Norway spruce stand decline using remote sensing methods	Olga Brovkina
15:45	Land cover change as an indicator of land degradation neutrality in the United Nations program	MykolaLavrenik
15:55	Airborne remote sensing technologies, Hungary	MikusDezsó
	<i>Questions & Discussion</i>	
16:30	<i>Adjourn</i>	
17:00	<i>BUSS tour: Planetarium - Ancient Hungarian star constellations</i>	
	<i>Urban LCLUC - Environmental effect of urban landscape development</i>	
19:00	SCERIN-5 Hosts Dinner (Restaurant TBD, sponsors HP and UP)	

¹Table in on page 1, or power point slide TEMPLATE attached as a separate file

6/22/2017 Thursday

SCERIN-5 Day 3

Regional LCLUC - Field Trip

Scientific Field Trip: „Land use change planning of the Old Dráva Program“

Goal: learn about the typical regional drivers/examples of Land Cover Change, provide time for informal discussions, and foster further the SCERIN network collaborations.

8:15 Departure in front of the building of the Academy, Jurisics M. str. 44, Pécs

app. 9:30	Arrival to Szaporca (stop 1.)
9:30 -10:30	Visiting Old Dáva Visiting Center (http://odlk.hu/en/) Old Dráva Program - MrZsoltTiffán, regional parliamentarian and Governmental Commissioner responsible for the Old Dráva Program, Traditional Floodplain Management - MrEndreStelik , ranger Danube-Dráva National Park
11:00	Arrival to Drávafok(stop 2.)
11:00-12:00	For Ormánság Foundation Ecological Fruit-Culture – Tamás Lantos, representative of the Ormánság Foundation
12:30	Arrival to Alsóerdeiforest(stop 3.)
12:30 – 13:30	Lunch (Deer stew sponsored by Mecsek Forestry Co. Ltd)
14.15	Arrival to Szentegátforest(stop 4.)
14:15 – 15:00	Short history of the Hungarian forest management and visiting the oldest oak forest on the former Dráva floodplain – DénesMolnár, forester Mecsek Forestry Co. Ltd
15:30	Arrival to Drávaiványforest(stop 5.)
15:30 -16:30	Floodplain oak forest management – DénesMolnár, forester Mecsek Forestry Co. Ltd
17:30	Arrival to Palkonya(stop 6.)
17:30 – 19:00	Visiting street of Cellars (wine tasting sponsored by HP) https://villanyiborvidek.hu/en/settlements/palkonya
20:00	Arrival to the Academy, Pécs

The field trip will focus on the Old Drava project, which is the biggest scale landscape restoration project in Hungary, founded by the Hungarian government. The main project elements have a big influence on land cover and land use of the Drava river floodplain (Ormánság), and include the following action fields:

- *integrated floodplain management*
- *habitat revitalization*
- *forest regeneration*
- *water regime restoration*

During the field trip, three demonstration sites will be visited. The bus journey to the first stop (Old Drava Visitor Center) will take about 1 hour, where the staff of the Danube Drava National Park will introduce the former floodplain management activities. Afterward the government office will highlight the Old Drava project and summarize the governmental objectives at Kémes. Our last stop will be an NGO (For Ormánság Foundation), which deals with traditional land management at Drávafok. This field trip is organized by the hosts for the participants in SCERIN-5 and TAT.

How to dress: sport gear, walking shoes



Time	6/23/2017Friday
	SCERIN-5 Day 4
9:00	SCERIN Observers – Countries and Institutions Programmatic Panel (Georgia and Norway – 10 min each) (<i>Chair/Records: Petya Campbell</i>) <i>Questions & Discussion</i>
9:30	WS 1 Outcomes - Manakos (lead) – 10 min summarization, short discussion
9:45	WS 2 Outcomes - Taff (lead) – 10 min summarization, short discussion
10:00	WS 3 Outcomes - Pilas (lead)– 10 min summarization, short discussion
10:30	<i>Coffee Break and Posters (30 min)</i>
11:00	SCERIN Future joined activities: proposals for presentations are welcome (e-mail suggestions) ¹ František Zemek: SCERIN new projects proposals and future directions - presentations for joint proposals - presentations for new joint papers <i>Questions & Discussion</i>
12:15	<i>Working Lunch (sponsor START)</i>
13:30	SCERIN Future plans, activities and potential venues (Chairs: Petya Campbell, Jana Albrechtova; Records: Lucie Kupkova) SCERIN Future Venue(s) – proposals for venues in 2018 <i>Questions & Discussion</i>
14:45	<i>Coffee Break, Posters are removed (30 min)</i>
15:30	SCERIN-5 Workshop outcomes, actions and deadlines, summary and conclusions <i>Chairs: Petya Campbell, Jana Albrechtova, Records: Lucie Kupkova</i>
16:00	Meeting Closing, Host Concluding Remarks (<i>Levente Ronczyk</i>)
16:30	<i>Adjourn</i>

²Let us know if you would like to propose an activity and present the goals (e-mail Jana and Petya)

List of SCERIN-5 Participants

First Name	Last Name	Affiliation	E-mail	ISO
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