

South Central and Eastern European Regional Information Network (SCERIN, <https://scerin.eu/>)

SCERIN Workshop 2025

Land Cover Change (LCC) and Extreme Events in SCERIN - remote sensing for sustainable management

<i>DAY 1</i>		<i>September 9, 2025</i>		
<i>Link to join: https://umbc.webex.com/meet/PetyaUMBC</i>				
<i>Time (CET, EET, EST)</i>	<i>Topic</i>	<i>Presenter</i>	<i>Association</i>	<i>Contact</i>
14:45, 15:45, 8:45	Opening (WebEx starting, Wellcome - Petya Campbell)			
15:00, 16:00, 9:00	SCERIN 2025 report and updates	Petya Campbell, Jana Albrechtova, Lucie Kupkova and Olga Brovkina	SCERIN Coordinators	
LCLUC Experts (Lead Petya Campbell, 10 min + 2 min Q&A)				
15:15, 16:15, 9:15	Climate change and irrigation expansion stress water resources in the Serbian Danube River Basin	Sean Woznicki	Grand Valley State University, USA	woznicse@gvsu.edu
15:27, 16:27, 9:27	Integration of remote sensing and machine learning for mapping phytocoenological communities of forests in the Republic of Croatia	Filip Radić	University of Zagreb, Faculty of Geodesy, Croatia	fradic@geof.hr
15:39, 16:39, 9:39	Living Earth: Local to global characterisation, mapping, monitoring and futuring of land and water	Richard Lucas	Earth Observation and Ecosystem Dynamics, Department of Geography and Earth Sciences (DGES), Aberystwyth University, UK	rml2@aber.ac.uk
15:51, 16:51, 9:51	From the Swiss Data Cube to Living Switzerland: Developing a Digital Twin of the Environment	Gregory Giuliani	University of Geneva, Switzerland	gregory.giuliani@unige.ch
16:00, 17:00, 10:00	Break (5 minutes)			
Remote Sensing Focus in Bulgaria (Lead Rumiana Vtseva, 10 min + 2 min Q&A)				rvatseva@gmail.com
16:05, 17:05, 10:05	The Geological Institute at BAS - Overview of Research Activities	Svetoslav Georgiev	Director of the Geological Institute, BAS, Sofia, Bulgaria	svetoslav.georgiev@geology.bas.bg
16:17, 17:17, 10:17	Remote Sensing and BG Alert - possibilities and limitations	Boyko Rangelov	Space Research and Technology Institute, Bulgarian Academy of Sciences (SRTI-BAS), Bulgaria	brangelov@gmail.com
16:30, 17:30, 10:30	Remote Sensing Applications in Geological Surveying and Mapping: Research Highlights from the Geological Institute at the Bulgarian Academy of Sciences	Rumiana Vtseva	Geological Institute, Bulgarian Academy of Sciences (BAS), Bulgaria	rvatseva@gmail.com
16:42, 17:42, 10:42	Smart4COV19: Innovative Remote Sensing and GIS Approaches for COVID-19 Impact Monitoring in Bulgaria	Lachezar Filchev	Space Research and Technology Institute, Bulgarian Academy of Sciences (SRTI-BAS), Bulgaria	lachezarhf@space.bas.bg
16:54, 17:54, 10:54	Integrating Remote Sensing and GIS: Research Highlights from SRTI-BAS	Lachezar Filchev		
17:00, 18:00, 11:00	Break (5 minutes)			
Discussion of SCERIN hot-topics (Lead Jana and Petya)				
17:05, 18:05, 11:05	LCC and extreme events, natural and anthropogenic disasters (fires, floods, droughts, air- and water-pollution, landslides)	Sean Woznicki, Katarina Pavlek, Nikolay Dolchinkov, Lachezar Filchev		
	Forest and agricultural monitoring in SCERIN - key causes for disturbances and decline in health and biomass	Filip Radić, Oleh Chaskovskyy, Erdenetuya Boldbaatar		
<i>Adjourn</i>				

DAY 2				
September 10, 2025				
Link to join: https://umbc.webex.com/meet/PetyaUMBC				
Time (CET, EET, EST)	Topic	Presenter	Association	Contact
14:45, 15:45, 8:45	Opening (WebEx starting, Wellcome - Petya Campbell)			
LCLUC Experts (Lead Lucie Kupkova, 10 min + 2 min Q&A)				
15:00, 16:00, 9:00	The impact of map accuracy on area estimation with remotely sensed data within the stratified random sampling design	Sergii Skakun	University of Maryland, USA	skakun@umd.edu
15:12, 16:12, 9:12	Agricultural land cover dynamics in Romania	Geoff Henebry	Michigan State University, USA	henebryg@msu.edu
15:24, 16:24, 9:24	Monitoring early stages of forest damage using Time Series of UAV Hyperspectral Data: A Case Study of Bark Beetle Infestation	Lucie Kupková	Charles University Prague, Czechia	lucie.kupkova@natur.cuni.cz
15:35, 16:35, 9:35	Canopy height estimation versus forest cover type at areas in Czechia: a collaboration enabled by SCERIN	Leonidas Alagioglou, Ioannis Manakos	Centre for Research and Technology Hellas, Greece	imanakos@iti.gr
15:45, 16:45, 9:45	Break (5 minutes)			
Research Highlights (Lead Olga Brovkina, 5 min + 2 min Q&A)				
15:50, 16:50, 9:50	Preliminary Forest Tree Species Classification in Selenge Province, Mongolia using SENTINEL-2 and Machine Learning	Erdenetuya Boldbaatar	University of Agriculture in Krakow, Poland	erdenetuya.boldbaatar@student.urk.edu.pl
15:58, 16:58, 9:58	Herbaceous vegetation monitoring on municipal solid waste landfills using airborne and UAV data	Olga Brovkina, Miroslav Píkl, František Zemek	SCERIN, Global Change Research Institute CAS - CzechGlobe, Czechia	brovkina.o@czechglobe.cz
16:05, 17:05, 10:05	Grand Fires in River Deltas in Peace and War Time	Volodymyr Starodubtsev, O.M. Soshenskiy, A.Yu. Terentiev	National University of Life and Environmental Sciences of Ukraine	vmstarodubtsev@ukr.net
16:15, 17:15, 10:15	The contribution of the National Satellite Programmes in LULC mapping	Polychronis (Pol) Kolokoussis	Geosystems Hellas, Greece	p.kolokoussis@geosystems-hellas.gr
16:22, 17:22, 10:22	MONALISA - MONitoring and Assessing prevention and restoration solutions to combat desertification: a short introduction	Ioannis Manakos	Centre for Research and Technology Hellas, Greece	imanakos@iti.gr
16:30, 17:30, 10:30	Break (10 minutes)			
Discussion of SCERIN hot-topics (Lead Rumiana Vatseva)				
16:40, 17:40, 10:40	Support and Funding Sources for SCERIN (Lucie			
	- EU grants (e.g., EU COST/OPTIMIZE - focus, deadlines, leads)	Lucie Kupkova	Charles University, Prague, Czechia	lucie.kupkova@natur.cuni.cz
	- institutional support, support from private companies	Petya Campbell	UMBC and GSFC, USA	petya@umbc.edu
LCLUC Expert Presentation				
17:00, 18:00, 11:00	LCLUC - Updates, Priorities and Directions	Garik Gutman	NASA LCLUC	garik_gutman@yahoo.com
Adjourn				

DAY 3				
September 11, 2025				
<i>Link to join: https://umbc.webex.com/meet/PetyaUMBC</i>				
Time (CET, EET, EST)	Topic	Presenter	Association	Contact
14:45, 15:45, 8:45	Opening (WebEx starting, Wellcome - Petya Campbell)			
	LCLUC Experts (Lead Jana Albrechtova, 10 min + 2 min Q&A)			
15:00, 16:00, 9:00	Impacts of Anthropogenic Vegetation Removal on Channel Dynamics: Evidence from a Lowland Meandering River	Katarina Pavlek	Chair of Photogrammetry and Remote Sensing, Faculty of Geodesy, University of Zagreb, Croatia	katarina.pavlek@geof.unizg.hr
15:12, 16:12, 9:12	The response of forests to meteorological factors in the Carpathian and Dinaric Mountains	T. Veljanovski, N. Krašovec, A. Burgin, A.P. Hostein, O. Brovkina, M. Švik, M. Čater	ZRC SAZU - Research Centre of the Slovenian Academy of Sciences and Arts, Slovenia	tatjana.veljanovski@zrc-sazu.si
15:25, 16:25, 9:25	Random Forest and Deep Learning Approaches for Detecting Forest Cover Changes	Oleh Chaskovskyy	Ukrainian National Forestry University, Ukraine	oleh.chaskov@gmail.com
15:37, 16:37, 9:37	Mapping and Spatiotemporal Analysis of Beach-Dune Systems on the Southern Bulgarian Black Sea Coast Using Remote Sensing Data	Ahinora Baltakova	Sofia University "St. Kliment Ohridski"	abaltakova@gea.uni-sofia.bg
15:50, 16:50, 9:50	<i>Suggestion to Joint SCERIN Publication:</i> Multi-temporal analysis of municipal solid waste landfill life cycles in SCERIN urban areas with satellite Landsat and Sentinel-2 data	Olga Brovkina	SCERIN, Global Change Research Institute CAS - CzechGlobe, Czech Republic	brovkina.o@czechglobe.cz
16:00, 17:00, 10:00	Break (10 minutes)			
	Research Highlights (Lead Jana Albrechtova, 5 min + 2 min Q&A)			
16:05, 17:05, 10:05	Uptake of Copernicus Services for Planning Stakeholders: Role and Results of SRTI-BAS	Lachezar Filchev	Space Research and Technology Institute, Bulgarian Academy of Sciences (SRTI-BAS), Bulgaria	lachezarhf@space.bas.bg
16:12, 17:12, 10:12	Upscaling photosynthetic efficiency from leaf to canopy level	Petya Campbell	UMBC\GESTARII and NASA\GSFC, USA	petya@umbc.edu
16:25, 17:25, 10:25	Ground Acquisition Infrastructure for Education	Olga Gershenzon	Planet Earth Crew LLC, Bulgaria	ogershenzon@gmail.com
16:32, 17:32, 10:32	Next generation commercial EO data systems	Zdravko Dimitrov	Sfera Technologies, Bulgaria	zdravko.dimitrov@homeport.network
16:40, 17:40, 10:40	International Conference of Environmental Remote Sensing and GIS (ICERS 2026), SCERIN Workshop in 2026	Mateo Gašparović	Faculty of Geodesy, Univ of Zagreb, Croatia	mgasparovic@geof.hr
	Discussion of SCERIN hot-topics (Leads Jana and Petya)			
16:50, 17:50, 10:50	New models to access commercial EO data sources	Zdravko Dimitrov	Sfera Technologies, Bulgaria	zdravko.dimitrov@homeport.network
16:55, 17:55, 10:55	Forest and agricultural monitoring in SCERIN - key causes for disturbances and decline in health and biomass	Filip Radić, Oleh Chaskovskyy, Erdenetuya Boldbaatar, Petya Campbell		
17:10, 18:10, 11:10	SCERIN tasks and follow-up activities (objectives, timeframe)	Petya Campbell, Jana Albrechtova, Lucie Kupková and Olga Brovkina		
17:20, 18:20, 11:20	Concluding remarks and closing of SCERIN 2025 Workshop			
	<i>Session leads, SCERIN coordinators, ALL</i>			
	Adjourn			