

Welcome to the workshop SCERIN 10, welcome to Brno

SCERIN MEETINGS

SCERIN-10 Workshop on Earth System Observations and 10th Anniversary
 Czech Republic, Brno, 26th - 29th June 2023
 Recent terrestrial ecosystems LCU changes and driving forces - challenges for RS and sustainable management

Global Change Research Institute, CAS
 GOFC-GOLD and START, USA
 NASA Goddard Space Flight Center
 University of Maryland, Baltimore County
 Charles University, Prague, Faculty of Science

SCERIN-9 Virtual Workshop, 30 May - 1 June, 2022
 Satellite remote sensing for forest management and ecosystem health, floods, droughts, and wildfires in the context of climate change

MedRIN and SCERIN-8 Virtual Capacity Building Workshop on Earth System Observations
 June 15-17, 2021

SCERIN-7 Capacity Building Workshop
 24-27 June 2019, Novi Sad, Serbia

SCERIN-6 Capacity Building Workshop
 11-14 June 2018, Zagreb, Croatia

SCERIN-5 Capacity Building Workshop
 Institute of Geography, Faculty of Sciences, University of Pécs, Hungary
 20-23 June 2017

SCERIN-4 Capacity Building Workshop
 Faculty of Forestry, Technical University in Zvolen, Slovakia
 18-22 July 2016

SCERIN-3 Capacity Building Workshop
 Transilvania University in Braşov, Romania
 13-15 July 2015

SCERIN-2 MEETING
 Jagiellonian University in Kraków, Poland, Institute of Geography and Spatial Management
 5-10 June 2014

SCERIN-1 Meeting, Trip and Trans-Atlantic Training
 Charles University in Prague, Czech Republic
 17-21 June 2013

B | R | N | O

26th - 29th June 2023



Recent terrestrial ecosystems LCLU changes and driving forces - challenges for remote sensing and sustainable management

26th - 29th June 2023

Global Change Research Institute, CAS
GOFC-GOLD and START, USA
NASA Goddard Space Flight Center
University of Maryland, Baltimore County
Charles University, Prague, Faculty of Science



FACULTY OF SCIENCE
Charles University



9:00	Welcome Address and Host Remarks - F. Zemek; Prof. M. V. Marek - CzechGlobe Director	
9:20	The NASA LCLUC Program in Support of GOFC-GOLD Program: An Update	<i>Garik Gutman, NASA/HQ, US</i>
9:50	SCERIN Status, SCERIN-10 Goals and Agenda	<i>SCERIN coordinators Petya Campbell, Jana Albrechtová and Lucie Kupková</i>
10:10	Remote sensing activities at CzechGlobe	<i>Lucie Homolová, CG</i>
<i>10:30</i>	<i>Coffee Break (15 min)</i>	
Plenary Session – continuing (Session Chair: F. Zemek and J. Albrechtová, Records: Petya Campbell)		
10:45	Small satellite – sea water monitoring	<i>Petr Boháček, TRL, CZ</i>
11:00	Calibration and validation of hyperspectral imagery using a field phenotyping measurements	<i>Martin Trtílek, PSI, CZ</i>
11:15	Earth Observation from Stratosphere	<i>Otakar Kuchař, Stratosyst, CZ</i>
11:30	WQeMS: A Copernicus assisted water quality monitoring service in support of the water utilities for drinking water production	<i>Ioannis Manakos, CERTH, GR</i>
11:45	Effects of wildland fire on drinking water quality	<i>John Iames, EPA, USA</i>
12:00	In season crop type mapping in the SCERIN region	<i>Mutlu Ozdogan, UWisc.</i>
<i>12:15</i>	<i>Questions and Discussion</i>	
<i>12:30</i>	<i>SCERIN-10 Picture (10 min)</i>	
<i>12:40</i>	<i>Working Lunch (1hr, conference location, sponsor START)</i>	

Research Highlights Czech Republic *(Session Chair: F. Zemek, O. Brovkina, Records: P. Campbell)*

13:30	Disentangling the runoff decline in the Thaya River basin using in situ and Earth observations	<i>Milan Fischer, CG</i>
13:45	Monitoring and predicting wildfires in Czechia	<i>Markéta Poděbradská, CG</i>
14:00	Agricultural monitoring	<i>Petr Lukeš, CG</i>
14:15	DendroNetwork – Real-time Biomonitoring of Forest Ecosystems	<i>Jan Krejza, CG</i>
14:30	Working with Social Sciences in Land Use Change – the case of the PLUS Change project.	<i>Julia Leventon, CG</i>
14:45	Dense time series of UAV multispectral and hyperspectral data for forest health and land cover change evaluation: case study Rašelinový potok Krkonoše Mts.	<i>Lucie Kupkova, CUNI</i>
14:55	Laboratory spectroscopy contributing to monitoring of tree physiological status in Czechia	<i>Zuzana Lhotakova, CUNI</i>
15:05	<i>Questions and Discussion</i>	
15:30	<i>Coffee Break (20 min)</i>	
15:50	SCERIN Research highlights - POSTERS 'flash talks'	3 min/each – table on next page
16:30	<i>Questions and Discussion</i>	
16:45	<i>Workshop icebreaker</i>	
17:30	<i>Adjourn</i>	

Time	SCERIN-10 Day 2	Presenter's name
Potential for a new SCERIN FG?		
9:00	Introducing a <i>New Urban</i> SCERIN focus group (<i>TBD ? FG. 3</i>)	<i>F. Zemek, O. Brovkina</i>
9:15	Challenges and Opportunities for Sustainable Urban Ecosystems: A Focus on Architecture and Urban Planning in the Face of Climate Change	<i>Milica Vujovic</i>
9:30	Urban greenery – an important component of citizens well-being	<i>F. Zemek</i>
9:45	Urban land cover mapping in coastal zone of Kaniv Reservoir	<i>O. Brovkina</i>
10:00	<i>Questions & Discussion</i>	
10:10	<i>Coffee Break and Posters (20 min)</i>	
10:30	The impact of war in Ukraine on LCLUC	<i>Sergii Skakun</i>
10:50	Water Reservoirs and the War in Ukraine: Environmental Consequences	<i>V. Starodubtsev, M. Ladyka</i>
11:10	Mapping Artillery and Rocket Craters with VHR satellite Imagery	<i>Erik Duncan</i>
11:30	Water emergent and floating aquatic vegetation mapping using Earth Observation data: An example at the Dniester Delta in Ukraine	<i>Eleftherios Katsikis</i>
11:50	<i>Questions & Discussion, Consider a statement of support for Ukraine*</i>	
12:00	<i>Lunch (1hr, conference location, sponsor START)</i>	

SCERIN Joint Activities – *current SCERIN collaborations and future/proposed activities*

13:00	Water Scarcity in the Serbian Danube: Agricultural land use change and irrigation	<i>Sean Woznicki</i>
13:15	Floodplain forests mapping using earth observations and artificial intelligence	<i>Ivan Pilas</i>
13:30	From land to water: the role of renewable energies in the Black Sea region for a climate-neutral Europe	<i>Rumiana Vatsava</i>
13:45	Canopy height estimation from Sentinel-2 time series images using machine learning	<i>Leonidas Alagialoglou / virtual</i>
14:00	National forest disturbance type and severity monitoring in Bulgaria	<i>Lachezar Filchev</i>
14:15	Cloud-gap-filled global maps of essential biophysical variables processed from the TOA Sentinel-3 catalogue in Google Earth Engine	<i>David Kovacs</i>
14:30	Hubs of Excellence	<i>Ioannis Manakos</i>
<i>14:40</i>	<i>Discussion</i>	
<i>15:00</i>	<i>Coffee Break and Posters (20 min)</i>	
15:20	Countries and Programs Priorities (<i>10 countries, 5 min./ country summary, Chair: Jana/Petya - please supply 1-2 slides</i>)	
<i>16:10</i>	<i>Questions & Discussion</i>	
<i>16:30</i>	<i>Adjourn</i>	
19:00	SCERIN-10 Networking Dinner (<i>Location: Mendlovo náměstí 1a, sponsors: TRL, CAS, PSI</i>)	

[SCERIN](#) is one of the regional GOFC-GOLD networks of the [GOFC-GOLD](#) panel. [GOFC-GOLD](#) (Global Observation of Forest and Land Cover Dynamics) is a panel of [GTOS](#). [GTOS](#) is a programme for observations, modelling, and analysis of terrestrial ecosystems to support sustainable development.

[SCERIN](#) (originally SEERIN) is an informal network of scientists and other professionals based in the region or with scientific interests in the region of South Eastern and Central Europe.