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Advances in new sensors and data processing development related to forest disturbance ecology

A workshop organised within the HE RESDINET project
February 22, 2023



Institute
of Forest
Ecology
SAS

	9:00	Introduction	
BLOCK I	9:15	Tree decline mapping using drone-based multispectral imagery	Samuli Junttila
	9:45	Detectability of European Spruce Bark Beetle Green Attack in Multispectral Drone Images	Langning Huo
	10:15	Early detection of bark beetle attack using hyperspectral drone remote sensing - experiences from Finnish test areas	Eija Honkavaara
	10:45	Coffee break	
BLOCK II	11:15	Measuring forest vitality using radar and the connection to bark beetle damages	Henrik Persson
	11:45	Monitoring of predisposition and green attack phases of Norway spruce to bark beetle attack using Planet Multispectral Imagery	Aleksei Trubin
	12:15	Mapping and analysing the bark beetle outbreak in Western Tatras mountains with the use of Sentinel 2 data	Matúš Pivovar
	12:45	Lunch	
BLOCK III	13:45	Experiences of bark beetle damage mapping at different resolutions in Finland.	Roope Näsi
	14:15	Different triggers, different stories: large-scale bark-beetle infestation patterns after storm and drought induced outbreaks	Simon Kärvelo
	14:45	Infestation patterns of multi-species coniferous forests by two bark beetle species in Kunashir Island in the Far East	Aleksander Karpov
	15:15	Time-series of infestation symptoms by Ips typographus in conserved and managed spruce forests in SE Finland	Päivi Lyytikäinen-Saarenmaa
	15:45	Coffee break	
BLOCK IV	16:15	GIS and climate: two approaches to develop spruce bark beetle outbreak risk analysis in Finland	Olli-Pekka Tikkanen
	16:45	The study of spruce - bark beetle interactions: combined remote sensing and terrestrial approach	Miroslav Blaženc
	17:15	Design of field study plots for study of spruce - bark beetle interactions: remote sensing point of view	Rastislav Jakuš

For online participants, click the Zoom meeting link (Meeting ID: 854 2792 1609; Passcode: 425389):
<https://us06web.zoom.us/j/85427921609?pwd=WHBINTZwRWc1T2JrTIheVFXTk1GZz09>