

Timetable draft

	Monday	Tuesday	Wednesday	Thursday	Friday
9-10:30	Introduction to the school and students' presentations Advanced Systematic literature search and meta-analysis (Valkama)	Introduction to process-based models (RothC, ARMOSA) (Acutis-Perego)	Environmental Risk Assessment of pesticides: regulatory contexts and current advancements (Finizio- Di Guardo)	Soil organisms, factors influencing microbial decomposition and effects of climate change.	Statistical models (linear models, machine learning) for soil mapping and soil characteristics estimation (Perego and Schillaci)
10.30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:00	Advanced Systematic literature search and meta-analysis (Valkama)	Practical Application of process-based models (e.g. RothC, ARMOSA)	Use of models in the context of Environmental Risk Assessment of pesticides: Scenario based and Landscape analysis (Finizio- Di Guardo)	Soil organisms, factors influencing microbial decomposition and effects of climate change.	From 11:00 to 11:30 "The European Green Deal for sustainable soil management in Europe" Dr. Luca Montanarella (JRC_European Commission) <i>remotely</i>
					Statistical models (linear models, machine learning) for soil mapping and soil characteristics estimation (Perego and Schillaci)
12:00-14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:30	Practical Application of Advanced Systematic literature analysis and meta-analysis (Valkama)	Practical Application of process-based models (e.g. RothC, ARMOSA)	Practical use of models in the context of Environmental Risk Assessment of pesticides. (Finizio-Di Guardo)	Method demonstrations: greenhouse gas flux measurements and C, N and water balance.	Application of digital soil mapping (Schillaci)
15:30 – 15.40	Break	Break	break	break	Break
15:40-17:10	Practical Application of Advanced Systematic literature analysis and meta-analysis (Valkama)	Practical Application of process-based models (ARMOSA and RothC) Modelling of C dynamics in agro-ecosystems	Soil and climatic databases freely available (e.g.WoSIS, SoilGrid, LUCAS, Wordclim). Description and methodology to access it. (Schillaci)	Method demonstrations: greenhouse gas flux measurements and C, N and water balance.	Application of digital soil mapping (Schillaci)
		Social dinner (at 19:00)		Certificate ceremony (after the end of the lecture)	