



Summer School

Modelling policy impacts on ecosystem services and biodiversity

Olomouc, Czech Republic

Register by 12 August, [here!](#)



September

M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Lecturers

- Guy Ziv, Arjan Gosal, University of Leeds, UK
- Meike Will, Birgit Müller, Anne Paulus, Michael Beckmann, UFZ–Helmholtz Centre for Environmental Research, DE
- Stephanie Roilo, Anna Cord, Technische Universität Dresden, DE
- Tomáš Václavík, Marek Bednář, Bořivoj Šarapatka, Petr Marada, Palacký University Olomouc, CZ

Venue

Large and small seminar rooms at the Dean's Office, Faculty of Science (the main building, 6th floor), 17. listopadu 1192/12, 771 46 Olomouc. Map: <https://en.mapy.cz/s/3tXfS>

Objectives

1. Obtain an introduction to different modelling approaches, including
 - agent-based modelling,
 - biodiversity/species distribution modelling, and
 - ecosystem services modelling (both provisioning and regulating ecosystem services)
2. Learn through practical, interactive exercises about the potentials and limitations of the different modelling approaches.
3. Get hands-on experience with specific models by applying them to real-world data from BESTMAP case studies.

Contact

Tomáš Václavík (tomas.vaclavik@upol.cz), Palacký University Olomouc, CZ



Background

Understanding the environmental impacts of agricultural policies, including measures such as agri-environmental schemes (AES) or organic farming, is a crucial step in assessing their effectiveness in European farmlands. Scientific models play an important role in quantifying such impacts, especially on biodiversity and ecosystem services provided by the agricultural landscapes.

While actively working towards transforming the future design and monitoring of EU rural policies, BESTMAP is holding this Summer School with the aim to draw upon developed methods and experience from the project, operating in five case studies across Europe.



Application

We invite you to register for the Summer School by filling out the online form by 12 August, 2022. The number of participants is limited to 25. Participants should ideally have some experience with modelling/coding in programming languages, such as R. Participants should install RStudio, NetLogo and some GIS software (e.g. ArcGIS or QGIS) on their laptops.

The event is free of charge. Participants are required to cover their travel and accommodation expenses. **However, we are able to support three participants with a travel award of 300 EUR.** If you would like to apply for the travel award, please upload a PDF of your Statement of purpose in the registration form, specifying why you are applying for the travel award and how the Summer School may be beneficial for your future career.



Palacký University
Olomouc



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HELMHOLTZ
Centre for Environmental Research



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Tentative Schedule

Monday, Sep 12

14:30	Arrival and registration
15:00	Welcome and introduction
15:30	Introduction to BESTMAP and overview of the course
17:30	End of Day 1
PM	Dinner

Tuesday, Sep 13

09:00	Agent-based modelling
12:00	Lunch
13:30	Agent-based modelling + uptake of agri-environmental practices
17:00	End of Day 2

Wednesday, Sep 14

09:00	Modelling biodiversity (species distribution modelling)
12:00	Lunch
13:30	Modelling water quality / nutrient retention
17:00	End of Day 3

Thursday, Sep 15

09:00	Field trip to Šardice, "South Moravian Tuscany" - examples of agri-environmental practices in a traditional agricultural landscape in Czechia
PM	Wine tasting + dinner
PM	Return to Olomouc

Friday, Sep 16

09:00	Modelling the Impact of biophysical conditions on the uptake of agri-environmental practices
12:00	Summary & close
13:00	End of day 5

Register [here!](#)

