

EPIC-BUTTERFLY

Training courses for butterflies



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Ecology & Hydrology





1–What is EPIC project

2–Developing the training programme

3–Implementation of training programme

4–Certification

5–Next steps

Introduction

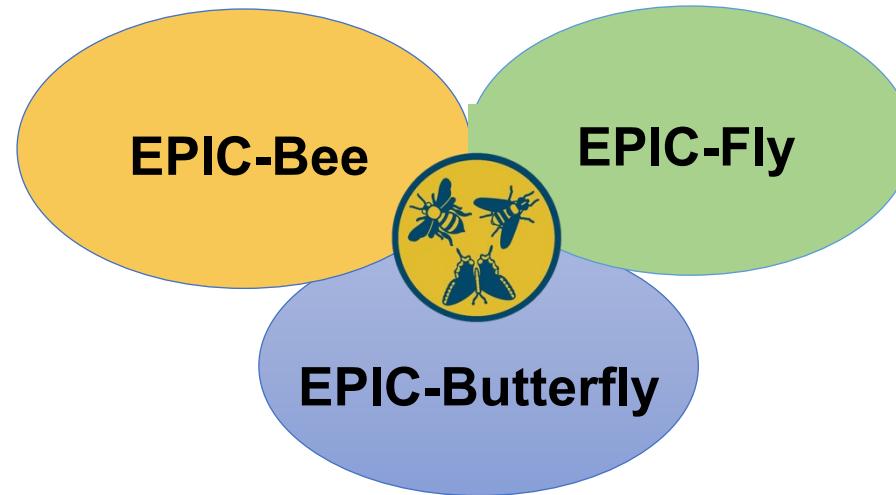


European Pollinator Identification Courses

The main objective of the **EPIC** project is to strengthen the para-taxonomic capacity of in EU Member States, and support preparation for the implementation of the EU Pollinator Monitoring Scheme (EUPoMS).



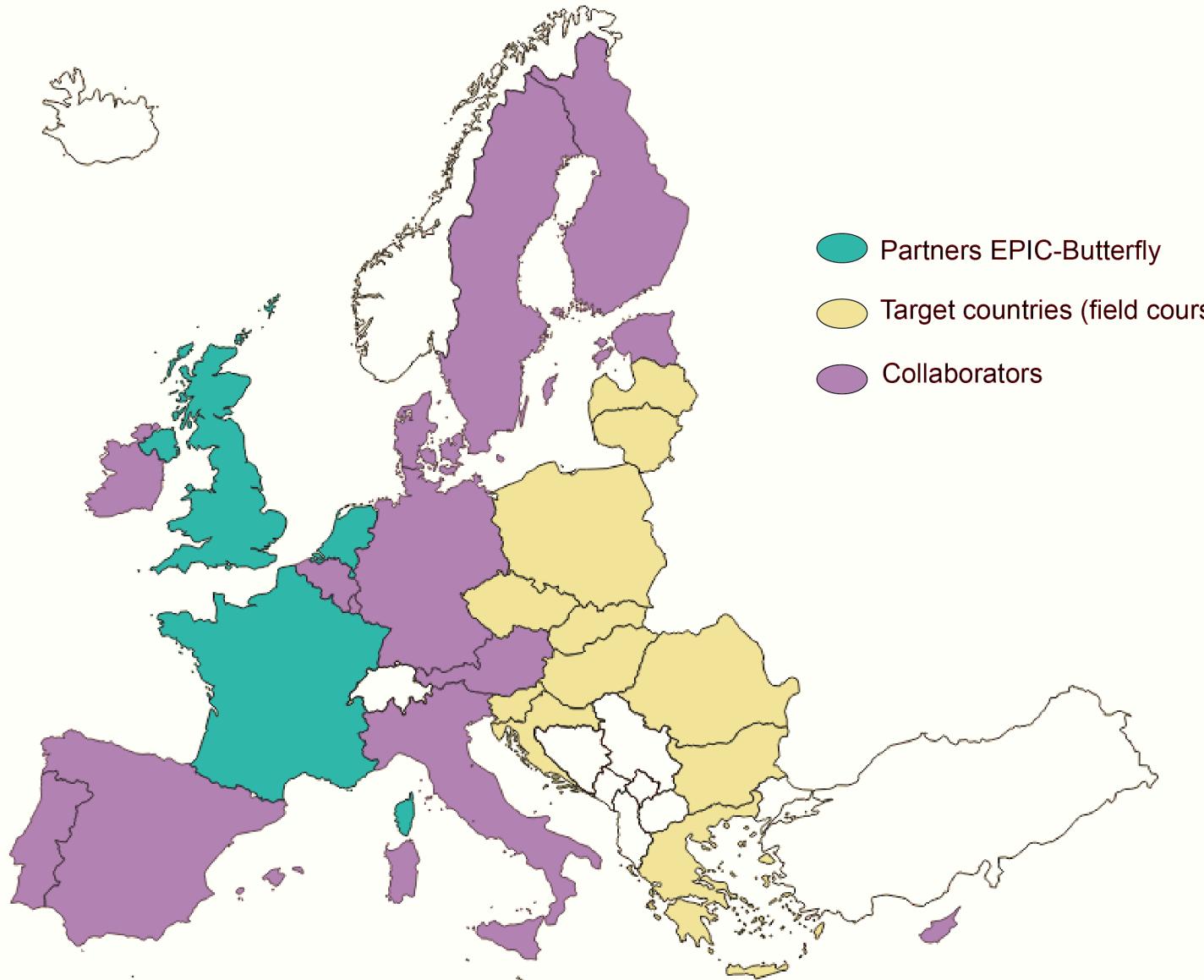
*University of
Mons (Belgium)*



*University of
Alicante (Spain)*

- ▶ Three separated lots: independent but common background (SPRING project)
- ▶ Common parts: Certification and common platform resources – Pollinator Academy





- Partners EPIC-Butterfly
- Target countries (field courses)
- Collaborators



Developing the Training Programme



PRELIMINARY

Introduction to butterfly anatomy, biology and ecology

BASIC

Basic knowledge on butterfly monitoring, biology and ecology.
Learn the common species

INTERMEDIATE

Intermediate knowledge on butterfly anatomy.
Learn 70% of the regional species and all genera.

ADVANCED- EXPERT

International advanced masterclass to cover up to 90% of the species.
Laboratory course on genitalia

Level 0 - Preliminary

Level 1 - Basic

Level 2 -
Intermediate

Level 3 -
Advanced

Level 4 -
Expert

Content



Preliminary

E-learning
Biology

E-learning
Anatomy

Basic

E-learning
Identification

E-learning
Biology

E-learning
Techniques &
conservation

Webinar

Field
excursion

Intermediate

E-learning
Identification

E-learning
Techniques &
conservation

Two
webinars

Field
excursion

Advanced

E-learning
Identification

Online
masterclass

Two
webinars

Field
excursion

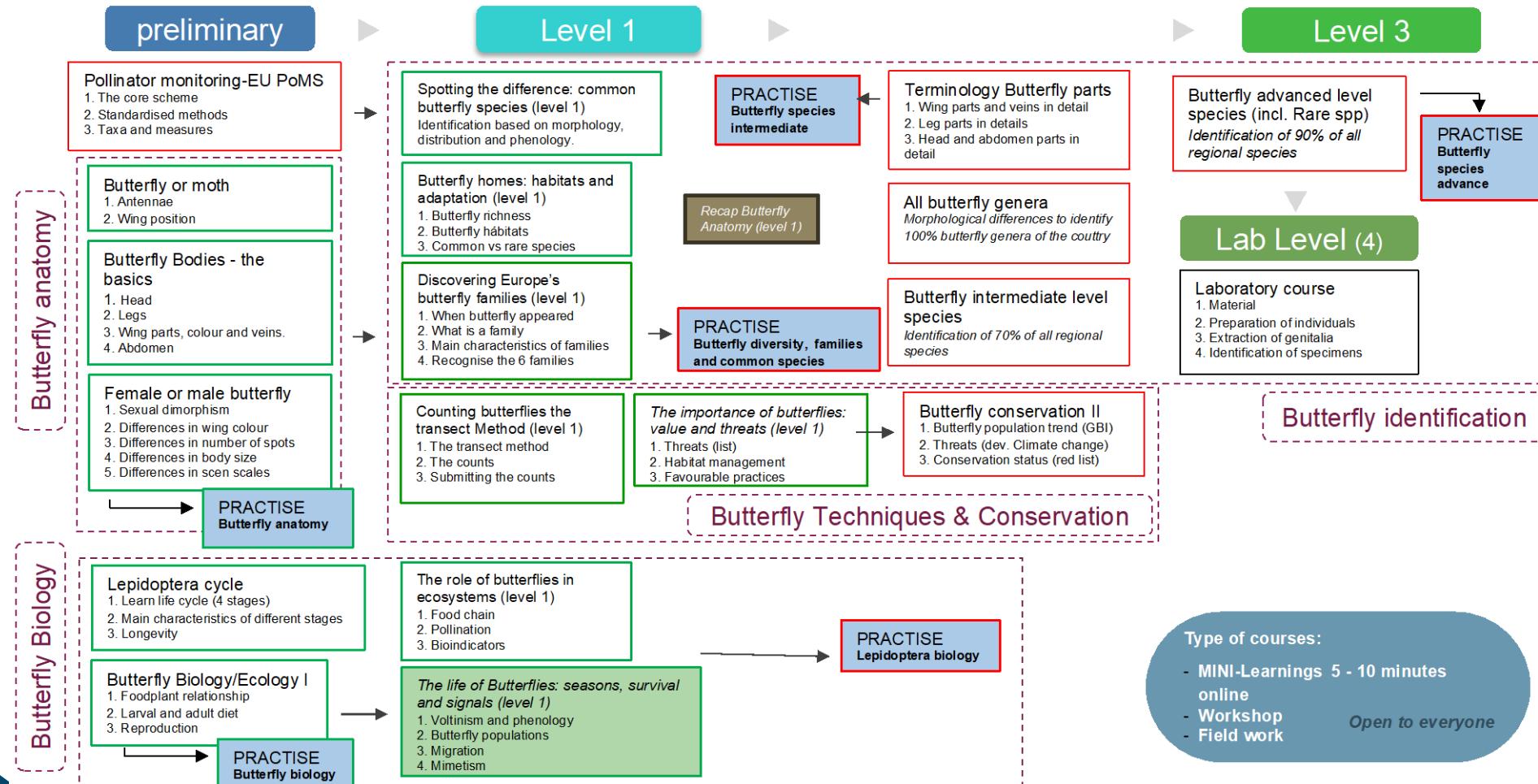
Expert

E-learning
Laboratory

Training
in lab



Detailed content





E-learning – Pollinator academy



About the courses

The butterfly courses are provided by the EPIC-Butterfly consortium, which consists of three partners and 11 collaborators. The coordination of this project is handled by the UK Centre for Ecology & Hydrology (UKCEH), in collaboration with Butterfly Conservation Europe (BDE) and Office Pour les Insectes et leur Environnement (OPIE). The objective of the training activities is to establish a network of experts in Europe who are able to identify butterflies to species level. Para-taxonomic experts are required in all EU Member States to facilitate the implementation of the European Pollinator Monitoring Scheme (EUPoMS) in the future.



The training program

Online lessons & webinars

Butterflies can be identified at the species level with the proper training. EPIC-Butterfly focuses on online training to provide the necessary knowledge on butterfly anatomy, biology, ecology, and monitoring. This is followed by webinars with experts and field excursions to practice the learned skills.

Who is it for?

The training program targets high-priority countries, primarily in Eastern Europe, where there is currently a shortage of para-taxonomists with the expertise necessary to contribute to the EUPoMS. The target countries for training courses during the 2025-2026 period are: Bulgaria, Croatia, the Czech Republic, Slovakia, Greece, Hungary, Latvia, Lithuania, Poland, Romania, and Slovenia. However, the e-learning lessons are open to everyone.

To register, please click here →



E-learning – Pollinator academy

Start your course now

Self-study E-learning



Preliminary

Introduction to biology & anatomy

Start 



Basic

Identification of families and common species

Start 



Advanced levels

Topics at intermediate, advanced & expert levels

Opens soon 

Level 0



Self-study (preliminary)

An introduction to the biology and anatomy of butterflies



Butterfly Biology

25 min.

Select language:

[Czech](#), [Croatian](#), [German](#), [Slovenian](#)

English



Butterfly Anatomy

25 min.

English

Start

Level 1



Butterfly Identification



Butterfly families in Europe

12 min.

🌐 English

Start →



Butterfly habitats and adaptation

12 min.

🌐 English

Start →



Revisit Butterfly Anatomy (preliminary)

25 min.

🌐 English

Start →

Butterfly biology



The role of Lepidoptera in ecosystems

12 min.

🌐 English

Start →



The life of Butterflies: seasons, survival and signals

15 min.

🌐 English

Start →



Counting butterflies: The Transect Method

8 min.

🌐 English

Start →



The importance of butterflies: value and threats

5 min.

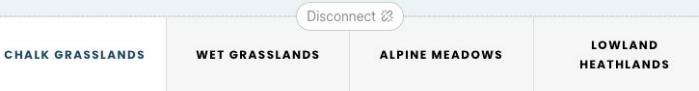
🌐 English

Start →

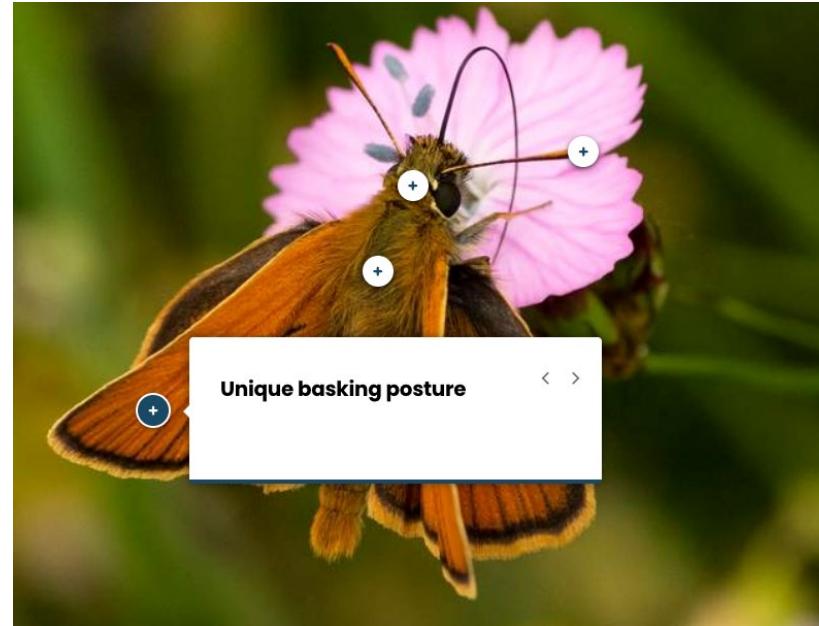


Example: Green, grassy places

Grasslands are extremely important for many species of butterflies. It provide plants that produce lots of **nectar** (butterflies' food) and plants on which their caterpillars can feed. Grasslands with a variety of plants tend to support a diverse butterfly population.



These are special places with thin, chalky soil that lacks nutrients. Many unique plants grow here, which in turn attract unique butterflies. Animals such as sheep and rabbits help to keep these areas open and ideal for butterflies by grazing.



Check your knowledge:

Disconnect 

Well-managed urban and agricultural areas can support butterflies diversity

≡

False

True

Genus: *Argynnis*

Several species belong to this genus, all with orange wings and black dots on the upperside. The key differences are on the underside of the hindwings.

- ***Argynnis paphia*** (Left): The underside of the hindwing is **green with a prominent silvery-white discal stripe**. The marginal area has the same colors.
- ***Argynnis pandora*** (Right): The underside of the forewing has a bright **red base color** in males. The hindwing underside is green with some yellowish (males) or silver (females) stripes.



Genus: *Speyeria*

Genus: *Boloria*



2. Organizing the recruitment of participants

How do we recruit participants??

- **Current volunteers**
- **Network** and consortium
- Suggestions national authorities and country experts

Minimum of 10 participants covered travel and accommodation costs (whole project)

Country (Region)	Field excursions	Online courses	Lab course	Approximate trainees in total
Lithuania	2	3		25
Latvia	2	3		25
Romania	2	2		20
Hungary	2	3		25
Slovakia / Czechia	2	3	1	28
Bulgaria	2	3		25
Greece	1	2		15
Croatia	1	2	1	15
Slovenia	2	3		20
Poland	1	2		15
Total	17	26	2	208



2. Member state nominations

Direct nominations of people to be trainee by the different MS



Nominees should be included on the butterfly trainings

Country	Nominations sent	Number nominations
Bulgaria	yes	3
Croatia	yes	6
Greece	yes	2
Poland	yes	6
Slovakia	yes	3
Hungary	yes	8
Lithuania	yes	19
Romania	yes	15
Slovenia	yes	1
Czechia		
Latvia		
Totals		63

- **Registration Form:** Microsoft Form online open to everyone
- **Acceptance of GDPR:** sharing trainees information to DG-Env
- EPIC team sent the registrations to trainers

Butterfly Courses

About the courses

The butterfly courses are provided by the EPIC-Butterfly consortium, which consists of three partners and 11 countries. The partners are the University of East Anglia (UEA), the Royal Holloway University of London (RHUL), in collaboration with Butterfly Conservation Europe (BCE) and Office Pour les Insectes et leur Environnement (OPIE). The objective of the training activities is to establish a network of experts in Europe who are able to identify butterflies to species level. Para-taxonomic experts are required in all EU Member States to facilitate the implementation of the European Pollinator Monitoring Scheme (EUPoMS) in the future.

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To register please click here →



3. Implementation of training programme

	Country	Date	Participants
2025	Hungary	12-13 April	17
	Czechia (Web)	24 April	21
	Slovenia	10 May	11
	Slovenia	9 June	11
	Czechia	24-25 May	20
	Romania	23-25 May	14
	Romania	10-12 July	14
	Bulgaria	23-24 June	6
	Lithuania	26-27 June	14
	Slovenia (Web)	21 October	
	Slovenia (Web)	18 November	
	Czechia (Lab)	30 November	10

4. Development of certification



- For online and field/lab courses
- Assessment of Competence : develop a checklist of skills and knowledge required at various competence levels (basic, intermediate, advanced), e.g. butterfly species identification, transect walking, data reporting, and using identification keys.



4. Development of certification

In situ Fieldwork certification

FIELD OBJECTIVES: LEVEL 1 EPIC-BUTTERFLY

Determine the objectives achieved based on a range from 0 to 5, where 0 is nothing/not acquired and 5 is completely acquired the knowledge. Minimum of 9 points to accept field objectives achieved by the trainee.

LEVEL 1 (BASIC)	Be able to conduct butterfly transects	Master the input of monitoring data	Catch and release specimens for identification	Identify butterfly species in field conditions	Describe the main characteristics of each butterfly family	Identify the most common butterfly species in the region	Total points
TRAINEE 1							
TRAINEE 2							
TRAINEE 3							
TRAINEE 4							
TRAINEE 5							
TRAINEE 6							



UMONS
Université de Mons

Version 2 (latest)

What is the family of this butterfly?
Please select one of the following options.

Question 1
Not yet answered
Marked out of 1.00

What is the family of this butterfly? Please select one of the following options.



Select one:

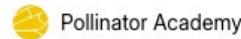
- a. Riodinidae
- b. Nymphalidae
- c. Pieridae
- d. Lycaenidae
- e. I do not know
- f. Papilionidae
- g. Hesperiidae





5. Next steps (Content)

Level 2 Intermediate



Spotting the difference:
intermediate butterfly
species (Level 2)



Updated at Nov 19, 2025



All butterfly genera in
Europe (Level 2)



Updated at Oct 24, 2025

Level 3 Advanced Masterclasses

The genus
Erebia

The genus
Pyrgus

(Extension) Level 3 Advanced material



Pollinator Academy
Spotting the difference:
intermediate butterfly
species (Level 2)



Updated at Nov 19, 2025



Pollinator Academy
Spotting the difference:
intermediate butterfly
species (Level 2)



Updated at Nov 19, 2025

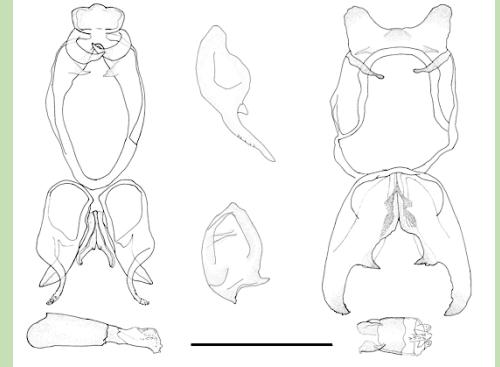


Pollinator Academy
Spotting the difference:
intermediate butterfly
species (Level 2)



Updated at Nov 19, 2025

Level 4 Laboratory course: extraction of genitalia





5. Next steps (Training programme)

Slovenia (Webinar) 20 January

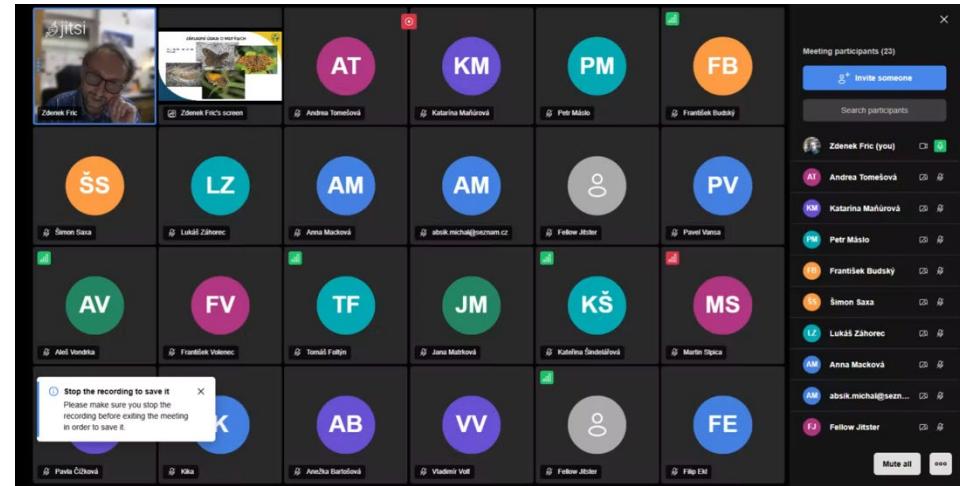
Greece 19-22 June

Lithuania Late June

Poland

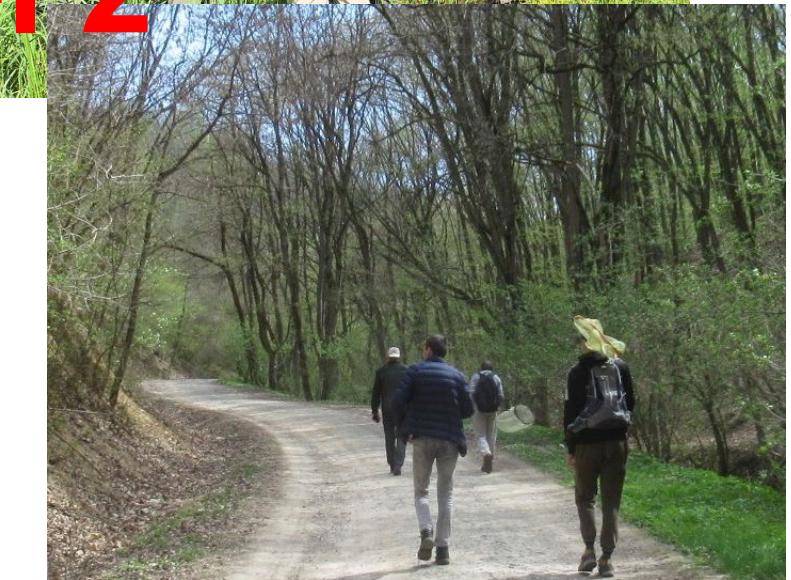
Croatia

Latvia



Czechia webinar

Level 2



Lithuania/Hungary field courses



Croatian
Natural History
Museum



UK Centre for
Ecology & Hydrology



