

Training School

4th July
9h30 –17h30

Monitoring Forests from Space

Guest Lecturers: Prof. Richard Lucas,
Dr. Suvarna Punelakar (U Aberystwyth,
UK); Dr. Antonio T. Monteiro (ULisboa
IGOT, PT)

Understanding Southwestern Forests in the Field

Guest Lecturers: Prof. Francisco
Castro-Rego (ISA, PT); Prof. Teresa
Fonseca (UTAD, PT)

5th July
9h00 –17h30

Modelling Forests

Guest Lecturers: Dr. Katharina Albrich
(LUKE, FI); Dr. Claudia Carvalho-
Santos (UMinho, PT)

6th July
9h00 –17h30

WorldCafe
From Present into the Future
Guest lecturers: Local stakeholders

7th July
9h00 –17h30



Funded by
the European Union

3 - 7th July 2022
Manteigas, Estrela Unesco
Global GeoPark, Portugal

Deadline for application: 31th May 2022

GPS coordinates: 40°24'10.08" N; -7°32'23.17" W

Tracking the Socio-ecology of
Southwestern European
Mountain Forests: *from the Field*
to the Space, from the Present
into the Future

Organized by: Antonio T. Monteiro (IGOT, ULisboa)
Teresa Fonseca (UTAD)



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UNIVERSIDADE
DE TRÁS-OS-MONTES
E ALTO DOURO



Background

Southwestern European mountains are complex socio-ecological systems where forests represent an asset that in some cases are naturally placed, and in others man-made. These forests are also places where extremes imposed by global change are increasingly acting and inducing damage (e.g. from ecological to socio-economical). Forest management and restoration became therefore a hot but conflicting topic due to distinct views of forest owners and forest policy. Southwestern European mountains are therefore socio-ecological systems that can serve as anticipatory observatories for more northern European geographies. Learn and advance on regarding Southwestern European mountain Forests.

Concept

A multidisciplinary team together with 12 trainees will discuss and advance on the knowledge of Southwestern European mountain forests by performing field and activities targeting the ecology of forests, their monitoring and management, their current and future challenges.

Structure

The training school is structured in two modules:

From the Field to Space (4-5th July)

Participants will be introduced to the socio-ecological characteristics of forests in Southwestern European Mountains. Participants will train on remote sensing techniques of forest monitoring with satellite data. Participants will perform a field excursion aiming the contact with forest management, forest recovery/restoration contexts after extreme events. Training on field forest surveying is also expected.

From Present to Future (6-7th July)

Participants will train on process-based modelling of forest dynamics and forest related ecosystem services, . A World Cafe session involving local stakeholders will discuss the present forests, and the expected shape of future forest to identify management and governance challenges in Southwestern European mountains.

Detailed Program

Sunday, July 3rd: Arrival at Manteigas, Serra da Estrela. Welcome drinks.

Monday, July 4th: Monitoring Forests from Space

After a brief introduction to Southwestern Forests, together with **Prof. Richard Lucas, Dr. Suvarna Punelakar (U Aberystwyth, UK); Dr. Antonio T. Monteiro (ULisboa IGOT, PT)**, we will address forest monitoring with remote sensing and Sentinel-2 satellite data. Focus will be given to the monitoring of essential forest variables and to Open Data Cube as monitoring platform.

Tuesday, July 5th: Excursion Understanding Southwestern Forests in the Field

Using the forests surrounding Manteigas village as open laboratories and the extraordinary forest socio-ecology knowledge of **Prof. Francisco Castro-Rego (ISA, PT), Prof. Teresa Fonseca (UTAD, PT) and national authority for Forests (ICNF)**, we will spend the day in the forest. Forest types, forest management, forest recover, forest disturbance and forest surveying will be addressed to comprehend the factors shaping Southwestern Forests. We will close this journey with a gala dinner.

Wednesday, July 6th: Modelling Forests

After a day in the field, we will be back to our nest, and learn about forest modelling with **Dr. Katharina Albrich (LUKE, FI) and Dr. Claudia Carvalho-Santos (UMinho, PT)**, young talented researchers. Dr. Katharina will share and train with us on how mobilize ILand model to track and simulate forest landscape dynamics. Dr. Claudia will share and train the modelling of forest under a ecosystem services perspective with InVEST natural capital model.

Wednesday, July 7th: World Cafe “From Present into the Future”

Our knowledge would be biased if we go home without listen from forest stakeholders. This morning will be used for that purpose using the WorldCafe approach.

*NB! The program may be subject to minor changes.

All you need to know:

Who can participate?

Training school applicants should be engaged in a research program as postgraduate students or postdoctoral fellows or be employed in any [COST country](#) research institution or accepted [NNC institution](#). COST Association determines the eligibility of the participants. Consult [COST Vademecum](#) and [PEN-CAFFoR](#) homepage to determine whether or not you can be reimbursed for your travel and accommodation expenses.

Venue

The training school will be held at Business Incubator facility "[Ninho de Empresas](#)" of Manteigas village, Serra da Estrela Unesco Geopark, Portugal. GPS coordinates: 40°24'10.08" N; - 7°32'23.17" W

Language

The Training School will be held in English, good working language knowledge is expected from trainees.

Logistics

The Training School will start on Sunday, July 3rd (17:00) and end on Thursday, July 7th (late morning). Accommodation: [INATEL Manteigas hotel](#) is the accommodation partner and we recommend the participants to stay here. Selected participants have to confirm their participation by June 10th, 2022.

We are looking forward to your applications!

Financial Support

Participants can be reimbursed for their long-distance travel expenses according to the eligibility rules specified in Vademecum Section 5 (Meetings – Financial Support). Participants will also receive reimbursement in the form of a daily allowance (195 EUR). The daily allowance will largely cover the incurred accommodation, meals, and local travel expenses. The daily allowance is paid after the training school (with possible exceptions for the participants from ITC countries).

Application Procedure

Interested postgraduate students and young scientists must send the following information **by June 3th, 2022**, to both the Action's Training School Coordinators

Antonio T. Monteiro (monteiroantonio@edu.ulisboa.pt)

Teresa Fonseca (tfonseca@utad.pt)

- Curriculum Vitae
- Motivation Letter
- Short description of your scientific background

For eligible participants to receive financial support, they shall create an e-COST profile at <https://e-services.cost.eu/> including bank details before accepting their e-COST invitation.

PEN-CAFoRR's Selection Committee will **select a maximum of 12 applicants** based on the quality of applications, suitability of the trainees, and COST's principles. Female candidates and applicants from [ITC countries](#) are especially encouraged to apply. For more information, don't hesitate to get in touch with us.