

XXI International Summer School on Environment

TeRRIFICA SUMMER SCHOOL

Climate Change in the Mediterranean Basin: evidences, discussions and citizen contributions

June 28-30, 2021

Online

Free registration

Context, description and objectives

“Climate change is the defining challenge of our time. Mitigating its impacts and adapting to changes already taking place or impossible to avoid will require fundamental changes to societies and behaviors all over the world – as well as scientific breakthroughs, both technological and social (Carlos Moedas. Commissioner for Research, Science and Innovation. Climate Change Adaptation - Directorate-General for Research and Innovation, European Commission). It is in this context that the TeRRIFICA (Territorial Responsible Research and Innovation fostering innovative Climate Action) EU H2020 project emerges and organizes the **TeRRIFICA Summer Schools** in the six pilot regions where the project is implemented in Europe in order to develop ideas for a positive future vision of the climate landscape for 2030.

The TeRRIFICA Summer School organized in the framework of the TeRRIFICA pilot of the metropolitan area of Barcelona will be held **online** from **June 28th to June 30th 2021** under the title **“Climate Change in the Mediterranean Basin: evidences, discussion and citizen contributions”**.

As MeDECC states in its “Climate and Environmental Change in the Mediterranean Basin – Current Situation and Risks for the Future First Mediterranean Assessment Report (MAR1)”, “virtually all sub-regions of the Mediterranean Basin, on land and in the sea, are impacted by recent anthropogenic changes in the environment. The main drivers of change include climate (temperature, precipitation, atmospheric circulation, extreme events, sea-level rise, sea water temperature, salinity and acidification), population increase, pollution, unsustainable land and sea use practices and non-indigenous species. In most areas, both natural ecosystems and human livelihoods are affected. Due to global and regional trends in the drivers, impacts will be exacerbated in the coming decades, especially if global warming exceeds 1.5 to 2°C above the pre-industrial level.

Significantly enhanced efforts are needed in order to adapt to inevitable changes, mitigate change drivers and increase resilience”.

This Summer School aims to develop ideas for a **positive future vision of the climate landscape in the Mediterranean basin for 2030**. Some of the sessions will put the focus on the metropolitan area of Barcelona, one of the six European pilot regions that are part of the TeRRIFICA project.

Organizers

This Summer School is organized by the Catalan Association of Public Universities (ACUP)/Global University Network for Innovation (GUNI), Universitat de Girona (UdG), Metropolitan Area of Barcelona (AMB), Union for the Mediterranean (UfM), and the Mediterranean Environmental Change Management Master Study and Ecosystems (MEHmed) within the framework of the TeRRIFICA project.

The TeRRIFICA Summer School “Climate Change in the Mediterranean Basin: evidences, discussions and citizen contributions” is part of the training programme provided by the International Summer School on Environment (ISSE) of the Institute of the Environment at Universitat de Girona (IMA-UdG).

The Institute of the Environment at Universitat de Girona (IMA-UdG) is a university research institute created in 1997 consisting of 60 members dedicated to the study, management and improvement of the environment based on analysis, territorial, environmental and landscape management and planning, and the design of eco-innovative solutions in the field of the environment. The training and outreach work are part of the essence of the Institute of the Environment (IMA-UdG). The Institute of the Environment is committed at disseminating its research by transferring knowledge between specialized professionals and the public, and over the course of nineteen years it has been developing the International Summer School on the Environment (ISSE) dealing with different topics related to the environment, later publishing the contributions of the experts in each subject, which allows to obtain a good perspective of the environmental problematic of our territory. The spirit of the International Summer School on the Environment of the Institute of the Environment has always been to address environmental issues, sharing knowledge, experiences and good practices with a view to sensitizing, raising awareness, training and involving both affected actors, academics and professionals, as in society at large.

Participants

Around 30 participants are expected to attend the Summer School. We welcome mainly young researchers and climate activists but also experts, mentors and facilitators with experience on co-creation processes with young generation.

Registration

Registration is now open. Applications must be submitted using this online form: <https://www.udg.edu/ca/instituts/ima/seminari-isse/inscripciones>. Please contact dir.ima@udg.edu or sec.ima@udg.edu for further information.

Language

In order to facilitate the participation of attendees from different areas of the Mediterranean basin, all sessions will be held in English. Other languages could be used in the break-out sessions, depending on the profile of the participants.

ECTS

1 ECTS

Teaching Methodology

The general approach to the Summer School design is a Co-creation design, which characterizes the participatory way of communication and collaboration between young researchers and non-researchers, on one hand; and mentors, experts and facilitators on the other hand.

Competencies to be acquired

Through the participation in the Summer School and in the subsequent activities and seminars organized by the Living labs, participants will acquire the key competencies for sustainability set out in the UNESCO document "[Education for Sustainable Development Goals: learning objectives](#)" (2017):

- ✓ systemic thinking competence
- ✓ anticipatory competence
- ✓ normative competence
- ✓ strategic competence
- ✓ collaborative competence
- ✓ critical thinking competence
- ✓ self-awareness competence
- ✓ integrated problem-solving competence.

Programme

The programme of the Summer School is structured in three parts: Situation analysis awareness (Day 1), Discussions and opinion formation (Day 2) and Future orientation workshops (Day 3).

Day 1 - 28th June 2021

Analysis of the current situation and risks for the future: awareness and evidence

9:15h - 9:45h Welcome and Opening of the session:

- Javier LAFUENTE, President of the Catalan Association of Public Universities (ACUP) and of the Global University Network for Innovation (GUNi) and Rector of the Universitat Autònoma de Barcelona (UAB)
- Quim SALVI, Rector of the Universitat de Girona (UdG)
- Fernando CABELLO, Director of Water Cycle Services of the Barcelona Metropolitan Area (AMB)
- Grammenos MASTROJENI, Deputy Secretary General for Energy and Climate Action of the Union for the Mediterranean (UfM)
- Norbert STEINHAUS, TeRRIFICA project coordinator (Science Shop Bonn)

9:45h - 10:45h Presentation: Main European policies on climate change adaptation and mitigation

- Tom DE GROEVE, Deputy Head of the Disaster Risk Management Unit at the European Commission Joint Research Centre (JRC) *TBC*

10:45h - 11:45h Coffee break + networking

11:45h - 12:30h Presentation: Report "Climate and Environmental Change in the Mediterranean Basin Current Situation and Risks for the Future"

- Wolfgang CRAMER, Coordinator of the network of Mediterranean Experts on Climate and Environmental Change (MedECC)

12:30h - 13:00h Presentation: The impact of climate change in Catalonia, a Mediterranean example

- Carme LLASAT, Professor of Atmospheric Physics at the Universitat de Barcelona (UB)

15:00h - 17:00h Summer School team building

This session is all about meeting and discovering the participants of the summer school. There will be ice-breakers, games and plenty of time to meet your fellow summer school participants. Facilitators:

- Alicia Betts, International Strategic Projects at Universitat de Girona (UdG)
- Marta Cayetano, Comms and Outreach at Associació Catalana d'Universitats Públiques (ACUP) and Global University Network for innovation (GUNi)

DAY 2 . 29th June 2021

Discussions and formation of opinion

09:30h - 10:15h Presentation: Climate change, development and migration in the Mediterranean region

- Iván MARTÍN, Associate Researcher at GRITIM-Universitat Pompeu Fabra (UPF) & Senior Fellow at Policy Center for the New South (Morocco)

10:15h - 11:45h Working table: Climate change, health and tourism in the Mediterranean region

- Grammenos MASTROJENI, Deputy Secretary General for Energy and Climate Action of the Union for the Mediterranean (UfM)
- Ferran DABAN, Barcelona Public Health Agency (ASPB) *TBC*
- Jorge OLCINA, Professor of Regional Geographic Analysis at the Universidad de Alicante (UA)

11:45h - 12:00h Coffee break

12:00h - 13:30h Role Play “Renewable energy at home”

- Carolina MARTÍ, Director of the Environmental Institute at the Universitat de Girona (UdG)

Metropolitan Workshop - Cooling Centers

15:00h - 15:30h Climate vulnerability (the case of the AMB)

- Ana ROMERO, Climate change and environmental awareness Head of Department at the Metropolitan Area of Barcelona (AMB)
- Quim BRUGUÉ, professor of Political Science at the Universitat de Girona (UdG)

15:30h - 16:15h Cooling Centers project: the need to enhance awareness

- Brenda SAAVEDRA, Technician of the Climate change and environmental awareness department at the Metropolitan Area of Barcelona (AMB)

16:15h - 17:00h Work in groups to elaborate proposals

- Ana ROMERO, Climate change and environmental awareness Head of Department at the Metropolitan Area of Barcelona (AMB)
- Brenda SAAVEDRA, Technician of the Climate change and environmental awareness department at the Metropolitan Area of Barcelona (AMB)

DAY 3. 30th June 2021

Co-working session

09:30h - 10:30h **“Building together”**

- Ismael BLANCO, Director of the Institute of Government and Public Policy (IGOP) - Universitat Autònoma de Barcelona (UAB)
- Quim BRUGUÉ, Professor of Political Science at the Universitat de Girona (UdG)

11:00h - 11:30h **Crowd-mapping: a tool for citizen involvement in climate change**

11:30h - 12:00h **Working groups I: identifying local climate change challenges**

12:00h - 13:00h **Working groups II: defining citizen’s solutions to climate change**

13:00h - 13:30h **Conclusions**

TeRRIFICA project

The EU funded project TeRRIFICA (Territorial Responsible Research and Innovation Fostering Innovative Climate Action) aims to influence climate change mitigation and adaptation policies and foster competence for climate change adaptation and mitigation in six European regions with a specific focus on Responsible Research and Innovation and the co-creation of knowledge.

In a trans-disciplinary partnership, TeRRIFICA involves six European countries, bringing together three research institutions, three non-profit organizations, one public association of universities and one public institution for science promotion. TeRRIFICA is led by WILA Bonn (Bonn, Germany) and the TeRRIFICA consortium is composed by the Rhine-Waal University (Kleve, Germany), the Education for Sustainable Development Association (Minsk, Belarus), the Center for the Promotion of Science (Belgrade, Serbia), the University of Vechta (Germany), the Adam Mickiewicz University (Poznan, Poland), Sciences Citoyennes (Paris, France) and the Catalan Association of Public Universities (Barcelona, Spain). The project is funded by the Horizon2020 programme of the European Commission.

If you want to stay informed about TeRRIFICA, please visit www.terrifica.eu, subscribe to the project's newsletter and follow our Social Media channels:

- Facebook page: www.facebook.com/TeRRIFICA.eu
- Twitter account: [@TeRRIFICA](https://twitter.com/TeRRIFICA)
- TeRRIFICA Community of Practice group on LinkedIn: www.linkedin.com/groups/13724546/

TeRRIFICA resources:

- Case Studies Report
- Report on Institutional Framework
- Guide on Engagement and Co-creation

www.terrifica.eu



- Stakeholder Mapping Report
 - Effective practices in community-academia research partnerships on climate change adaptation and mitigation – a Delphi study
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