


Summer School

29 May - 2 June 2023

 Vigo, Spain

MASTERING THE DEVELOPMENT OF CLIMATE SERVICE

Supported by

Universidade de Vigo



The Summer School will be hosted in Vigo, Galicia, Spain, and co-organised by the Environmental Physics Laboratory at the University of Vigo, WEMC, WMO and ICS. The Summer School will consist of three full days and two half days of lectures, group work and panel discussions throughout the week. You will hear from leaders in the energy, water and meteorology sectors. Members of the Scientific Committee include Alberto Troccoli (WEMC), Juan A. Añel (University of Vigo), Roberta Boscolo (WMO), Sue-Ellen Haupt (NCAR), and Laurent Dubus (RtE).

HOW WILL YOU LEARN

At the Summer School, you will learn about the importance of climate services for the energy and water sectors, understanding recent policy, scientific and technological developments. You will acquire theoretical and technical knowledge about seasonal forecasting and climate projections, and also understand the principles of service co-production and good practices for service delivery. As part of the training, you will have a practical assignment to develop a particular aspect of the service value chain, working in small teams to develop a your mini-climate service. Hearing from leading experts, you will learn about real-world applications of climate services and best practice approaches.

OBJECTIVES

Achieve a broad view of available climate services for the energy sector

Explore stakeholder engagement, user requirements and climate service value

Undertake training to acquire technical skills for co-producing climate services including data processing

Gain an appreciation of innovation processes for developing and delivering weather, water, and climate services to energy users including business models and networking opportunities with other sectors

ANY QUESTIONS ABOUT THE SUMMER SCHOOL ? PLEASE GET IN TOUCH :

Shelbie Walker for general enquiries shelbie.walker@wemcouncil.org

DAY 1. MONDAY 29 MAY

SESSION 1- CLIMATE SERVICES FOR THE ENERGY SECTOR: BACKGROUND & USER REQUIREMENTS

9:00-9:20	Welcome Address	Alberto Troccoli, WEMC Juan Antonio Añel, University of Vigo Hamid Bastani ,WMO
9:20-9:30	Introduction	AlbertoTroccoli, WEMC/ICS
9:30-10:30	User requirements for climate services	Laurent Dubus, RTE/WEMC

10:30 - 11:00 BREAK & NETWORKING

11:00-12:00	Status of climate services for energy	Alberto Troccoli, WEMC/ICS Hamid Bastani, WMO
12:00-13:00	Stakeholder engagement and value of climate services	Marta Terrado, BSC

13:00 - 14:00 BREAK - LUNCH

14:00-15:00	Physical modelling for climate services	Jara Imbers, Risk Management Solutions
15:00-16:00	Data and information sources for climate services	Sam Almond, C3S/ECMWF

16:00 - 16:30 BREAK & NETWORKING

16:30-17:30	Practical 1 – Introduction and team formation	Students and Mentors
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19:30-20:00 ICEBREAKER

20:00-21:00 DINNER

DAY 2. TUESDAY 30 MAY

SESSION 2- THE SCIENCE OF CLIMATE SERVICES & THEIR USES

9:00-10:30	Panel Discussion: The use of climate services in wind, solar and hydro power generation	Luis Prieto Godino, Iberdrola Mikel Illarregui, Acciona
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10:30 - 11:00 BREAK & NETWORKING

11:00-12:00	Seasonal and sub seasonal forecast for the energy sector	Juan A. Añel, University of Vigo
12:00-13:00	Climate projections for the energy sector	Alberto Troccoli, WEMC/ICS

13:00-14:00 BREAK - LUNCH

14:00-15:30	The use of climate services in wind, solar and hydro power generation	Xurxo Costoya, University of Vigo
15:30-16:30	Practical 2	Students and Mentors
16:30-17:00 BREAK - NETWORKING		
17:00-18:00	Practical 2	Students and Mentors
20:00-21:00 DINNER		

DAY 3. WEDNESDAY 31 MAY

SESSION 3- TAILORING CLIMATE SERVICES AND BUSINESS MODELS

9:00-10:00	Multimodel combinations and skill of seasonal forecast	Kristian Nielsen, WEMC
10:00-11:00	Selecting the right projections and models	Moncho Gesteira, University of Vigo
11:00 - 11:30 BREAK & NETWORKING		
11:30-12:30	How to set up a climate service business	Francesca Larosa, UCL (UK) and CMCC (Italy)
12:30 - 14:00 BREAK - LUNCH		
14:00-15:00	What you need to know for harvesting wind and solar energy	
15:00-16:00	What you need to know for harvesting hydropower	Laurent Dubus, RTE/WEMC
16:00-18:00	Practical 3	Students and Mentors
20:00-21:00 SPECIAL DINNER, GALICIAN ROMERÍA		

DAY 4. THURSDAY 1 JUNE

SESSION 4- CLIMATE SERVICES ACROSS SECTORS & FIELD TRIP

9:00-9:30	Introduction to the nexus	Hamid Bastani, WMO
9:30-10:30	Simulating and understanding meteorological impacts in agriculture	Antonio Graça, SOGRAPE
10:30 - 11:00 BREAK & NETWORKING		
11:00-12:00	Explore different ways to engage with users	Marta Terrado, BSC
12:00-13:00	Practical 4	Students & Mentors

13:00 - 14:00 BREAK - LUNCH

14:00-18:00	Field Trip to Belesar hydropower plant	
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18:00-19:30	Visit and break - winery in Ribeira Sacra	
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20:00-21:00 DINNER**DAY 5. FRIDAY 2 JUNE****SESSION 5- EXPLOITATION OF CLIMATE SERVICES & WORKING GROUP PITCHES**

9:00-10:30	Panel discussion: How to communicate climate science	
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Susana Bayo, University of Vigo, Telemiño Xavier Fonseca, La Voz Caty Arevalo, (Previously) Reuters & Spanish Ministry of Ecological Transition

10:30 - 11:00 BREAK & NETWORKING

11:00-13:00	Elevator pitch of projects	
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Students and Mentors

13:00-14:00 BREAK - LUNCH

14:00-15:00	Q&A	
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15:00-16:00	Closing	
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This programme is indicative to illustrate course content but is subject to changes.