


# Summer School

10 -14 October 2022

 Vigo, Spain

## Mastering the Development of Climate Services

Supported by

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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.*

*Taking place at Hotel Balneario de Mondariz, from Monday 10 October – Friday 14 October 2022. 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

*Provide a broad view of available climate services for the energy sector*

*Explore stakeholder engagement, user requirements and climate service value*

*Provide training to participants to improve technical skills for co-producing climate services including data processing*

*Promote innovation 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](mailto:shelbie.walker@wemcouncil.org)

DAY 1. MONDAY 10<sup>TH</sup> OCT

## SESSION 1- INTRODUCTION TO CLIMATE SERVICES AND SEASONAL FORECAST

9:00-9:20	Welcome Address	Alberto Troccoli, WEMC Juan Antonio Añel, University of Vigo Roberta Boscolo, WMO
9:20-9:30	Introduction	Alberto Troccoli, WEMC
9:30-10:30	User requirements for climate services	Alberto Troccoli, WEMC Laurent Dubus, RTE-WEMC
<b>10:30 - 11:00 BREAK &amp; NETWORKING</b>		
11:00-12:00	Status of climate services for energy	Alberto Troccoli, WEMC Roberta Boscolo, WMO
12:00-13:00	Stakeholder engagement and value of climate services	TBC: Clare Goodess, UEA
<b>13:00 - 14:00 BREAK - LUNCH</b>		
14:00-15:00	Physical modelling for climate services	TBC: Sue Ellen Haupt, NCAR
15:00-16:00	Data and information sources for climate services	TBC: Hannah Bloomfield, University of Bristol
<b>16:00 - 16:30 BREAK &amp; NETWORKING</b>		
16:30-17:30	Practical 1	
<b>19:30-20:00 ICEBREAKER</b>		
<b>20:00-21:00 DINNER</b>		

DAY 2. TUESDAY 11<sup>TH</sup> OCT

## SESSION 2- CLIMATE SERVICES & RENEWABLE ENERGY

9:00-9:30	Introduction	Alberto Troccoli, WEMC
9:30-10:30	The use of climate services in wind, solar and hydro power generation	TBC: Iberdrola Acciona Naturgy
<b>10:30 - 11:00 BREAK &amp; NETWORKING</b>		
11:00-12:00	Seasonal and subseasonal forecast for the energy sector	Juan A. Añel, University of Vigo
12:00-13:00	Climate projections for the energy sector	Juan A. Añel, University of Vigo
<b>13:00-14:00 BREAK - LUNCH</b>		

14:00-15:30	The use of climate services in wind, solar and hydro power generation	<b>TBC: Moderator: Ricardo García-Herrera</b> <b>Panelists: Acciona Iberdrola Naturgy</b> <b>Laurent Dubus</b> <b>Faten A Bahar</b>
15:30-16:30	Practical 2	
<b>13:00-14:00 BREAK - LUNCH</b>		
17:00-18:00	Practical 2	
<b>20:00-21:00 DINNER</b>		

## DAY 3. WEDNESDAY 12<sup>TH</sup> OCT

### SESSION 3- TAILORING CLIMATE SERVICES AND BUSINESS MODELS

9:00-10:00	Multimodel combinations and skill of seasonal forecast	TBC
10:00-11:00	Selecting the right projections and models	TBC
<b>11:00 - 11:30 BREAK &amp; NETWORKING</b>		
11:30-12:30	How to set up a climate service business	TBC
<b>12:30 - 14:00 BREAK - LUNCH</b>		
14:00-15:00	What you need to know for harvesting wind and solar energy	<b>TBC: Sue Ellen Haupt, NCAR</b>
15:00-18:00	Practical 3	
<b>20:00-21:00 SPECIAL DINNER, GALICIAN ROMERÍA</b>		

## DAY 4. THURSDAY 13<sup>TH</sup> OCT

### SESSION 4- CLIMATE SERVICES ACROSS SECTORS & FIELD TRIP

9:00-9:30	Introduction	TBC
9:30-10:30	Simulating and understanding meteorological impacts in agriculture	TBC
<b>10:30 - 11:00 BREAK &amp; NETWORKING</b>		
11:00-12:00	Climate services for textile sector	<b>Rep. from Inditex TBC</b>
12:00-13:00	Explore different ways to engage with users	TBC

**13:00 – 14:00 BREAK – LUNCH**

14:00–18:00	Field Trip to Belesar hydropower plant	
18:00–19:30	Visit and break – winery in Ribeira Sacra	TBC

**20:00–21:00 DINNER****DAY 5. FRIDAY 14<sup>TH</sup> OCT****SESSION 5– HOW TO DESIGN A CLIMATE SERVICE**

9:00–9:30	Recap	TBC
9:30–10:30	Panel discussion: Business focus	TBC

**10:30 – 11:00 BREAK & NETWORKING**

11:00–13:00	Elevator pitch of projects	
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**13:00–14:00 BREAK – LUNCH**

14:00–15:00	Q&A	
15:00–16:00	Closing	

**This programme is indicative to illustrate course content but is subject to changes.**