



Seventh Framework Programme  
Theme 6 [SPACE]



**Project: 607193 UERRA**

Full project title:  
**Uncertainties in Ensembles of Regional Re-Analyses**

**Deliverable D8.3**  
**Concluding User Workshop**

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## 1. Introduction

The 2<sup>nd</sup> UERRA User workshop took place on the 30<sup>th</sup> of November 2017. The goal of the final workshop was to present the main results and datasets of the UERRA project to the user. In the first User Workshop (3-4 February 2016, Toulouse; UERRA Deliverable 8.2), the users indicated that easy access to the analyses data is the most important requirement. Also, evaluation and visualization tools are of interest to most of the users. Thirdly, users indicated that examples of use of reanalyses data in different applications would help them to become familiar with this type of climate data, and to make the right choices for their applications. These remarks have been taken into account preparing the 2<sup>nd</sup> (concluding) user workshop. We invited two speakers with advanced experience in using reanalyses data for a wide range of applications. All users were invited to briefly present their (potential) application of the UERRA datasets.

After a user-oriented introduction to the basics of reanalyses systems, UERRA partners presented the specifics of each dataset produced. Although all short summary of the evaluation work was provided, details on the UERRA evaluation results and discussion was postponed to the next morning at the Evaluation Synthesis Workshop (Deliverable 3.7), to which all users were invited.

There are two documents that benefitted from these workshops:

The User Guide (D8.4), The user-friendly Evaluation Synthesis report (Deliverable 3.8)

All presentations of the user workshop are found on the UERRA webpage.



## 2. Workshop Description



### UERRA -User Workshop -Evaluation Workshop

Bringing together the users and providers of European reanalysis  
30 November + 1 December 2017, Tarragona, Spain



#### Topics:

- Principles of reanalysis systems used in UERRA
- Demonstrating data access and visualisation
- Strengths & weakness of the different datasets
- Assessing uncertainties and fitness for purpose
- Evaluation of UERRA wind, temperature, precipitation, radiation and climate indices

Everybody interested in using UERRA regional reanalyses is invited.  
The 2nd UERRA User Workshop will take place on Thursday (30/11, starting at 8:30). User Workshop participants are also invited to join the Evaluation Workshop on Friday morning (1/12, ending at 13:00). There is no registration fee. Visit <http://www.uerra.eu> for additional practical information and registration.



### UERRA User Workshop and Evaluation Workshop

30 November and 1 December 2017 at El Seminari, Carrer de Sant Pau, 4, Tarragona, Spain

#### Preliminary User Workshop Programme (Thursday 30 November, registration starts at ~8:30am)

- 1 - Short introduction of the UERRA project
- 2 - Principles and general overview of reanalysis systems
- 3 - User experiences and requirements
  - \* User perspective on climate data
  - \* User applications – users are invited to briefly explain their need for reanalysis data
- 4 - Presentation of all re-analyses products prepared in UERRA
- 5 - Methods to assess fitness for purposes
- 6 - Overview of the strengths & weakness of the different datasets
- 7 - Climate indices based on different re-analyses datasets
- 8 - Demonstrating data access and visualization
- 9 - How to meet the users' requirements – dialogue

#### Preliminary Evaluation Workshop Programme (Friday morning 1 December, until 13:00)

- 1 - Overview of used evaluation methods
- 2 - Comparison against station data, gridded data, satellite data and ensemble verification methods (Bias, MSE decomposition, frequency distributions, extremes, correlation on various temporal and spatial scales and other skill scores) with special emphasis on wind speed, temperature, precipitation, radiation and climate indices
- 3 - Remaining challenges



### 3. Workshop programme

#### Agenda 2<sup>nd</sup> UERRA User Workshop, Thursday 30 November 2017

##### INTRODUCTION

- 9:00 – 9:10 Welcome by the host and organizers (Manola Brunet, URV; Gé Verver, KNMI)
- 9:10 – 9:30 Short introduction of the UERRA project (Per Unden, SMHI)
- 9:30 – 10:00 Principles and general overview of reanalysis systems (Richard Renshaw, MetOffice)

##### USER EXPERIENCES AND REQUIREMENTS

- 10:00 – 10:20 User perspective on climate data (Kirsti Jylhä, FMI)
- 10:20 – 10:40 Using reanalysis for wind and solar power simulations:  
The Renewables.ninja project (Stefan Pfenniger, ETH Zurich)
- 10:40 – 11:10 **BREAK**
- 11:10 – 11:50 User applications – Short pitches by users explaining their application of reanalysis data

##### UERRA PRODUCTS

- 11:50 – 12:00 UKMO
- 12:00 – 12:10 SMHI
- 12:10 – 12:20 DWD
- 12:20 – 12:30 MF
- 12:30 – 12:40 KNMI
- 12:40 – 13:00 Evaluation results overview (Andrea Kaiser-Weiss, DWD)

##### 13:00 – 14:00 **LUNCH BREAK**

##### WORKING WITH THE DATA PRODUCTS

- 14:00 – 14:30 Climate indices based on different re-analyses datasets  
(Gerard van der Schrier, KNMI; Francois Besson, MeteoFrance)
- 14:30 – 14:50 Demonstrating data access and visualization MARS (Richard Mladek, ECMWF)
- 14:50 – 15:10 Demonstrating data access and visualization ESGF and ADAGUC (Else vd Besselaar, KNMI)

##### 15:10 – 15:40 **BREAK**

##### USER – PROVIDER DIALOGUE

- 15:40 – 15:50 Development of training material (Deborah Niermann, DWD)
- 15:50 – 17:30 How to meet the users' requirements – dialogue (moderated by Gé Verver, KNMI)



## 4. Participants

The workshop was attended by 42 participants, of which 18 from a user community.

Hasan	Abdulghani	SMHI	Sweden
Rachid	Abida	Meteo-France	France
Laia	Arbiol-Roca	Climatology Group - Universitat de Barcelona	Spain
Eric	Bazile	Meteo-France	France
Pau	Benetó Vallés	Fundación CEAM	Spain
Francois	Besson	Meteo-France	France
Roxana	Bojariu	National Meteorological Administration	Romania
Michael	Borsche	Deutscher Wetterdienst	Germany
Manola	Brunet	URV	Spain
Ines	Cerenzia	ARPAE - Emilia Romagna	Italy
Diana-Roxana	Cica	National Meteorological Administration	Romania
Vincent	Hartmann	Meteo-France	France
Angeles	Hernandez	AEMET	Spain
Roberto	Hernández	Tecnalia-Meteo	Spain
Francesco	Isotta	MeteoSwiss	Switzerland
Peter	Jermey	Met Office	UK
Kirsti	Jylhä	FMI	Finland
Andrea	Kaiser-Weiss	Deutscher Wetterdienst	Germany
Albert	Klein Tank	Royal Netherlands Meteorological Institute	The Netherlands
Patrick	Le Moigne	Meteo-France	France
Llorenç	Lledo	Barcelona Supercomputing Center	Spain
Robin	Locatelli	AXA	France
Maarit	Lockhoff	University of Bonn	Germany
Cristian	Lussana	Norwegian Meteorological Institute	Norway
Richard	Mladek	ECMWF	UK
Marc	Neumann	Basque Centre for Climate Change - BC3	Spain
Deborah	Niermann	Deutscher Wetterdienst	Germany
Esbjörn	Olsson	SMHI	Sweden
Jose Luis	Palau	CEAM	Spain
Stefan	Pfenniger	ETH Zurich	Switzerland
Jaume	Ramon	Barcelona Supercomputing Center	Spain
Richard	Renshaw	Met Office	UK
Martin	Ridal	SMHI	Sweden
Javier	Sigró	URV	Spain
Franck	Souverain	Meteo-France	France
Ole Einar	Tveito	Norwegian Meteorological Institute	Norway
Per	Undén	SMHI	Sweden
Else	van den Besselaar	Royal Netherlands Meteorological Institute	The Netherlands
Gerard	van der Schrier	Royal Netherlands Meteorological Institute	The Netherlands
Antoine	Verelle	Meteo-France	France
Gé	Verver	KNMI	The Netherlands