

EURO4M

European Reanalysis and Observations for Monitoring

CLOSELY MONITORING CLIMATE CHANGE

The decade 2010 – 2020 is set to be the finest hour for the world to act on climate change. Yet to be successful, we need to know in near-real time exactly how the climate is changing. The EURO4M project will monitor the evolution of the Earth system components, potentially paving the way for a GMES service on climate change.

Across the world, the impact of climate change is felt and its devastating potential is known. Europe is committed to leading the efforts taking on the climate change challenge. Therefore, enhancing scientific knowledge about the evolution of climate change is of paramount importance. Policy makers, researchers, and citizens need to know to better adapt, and also to monitor the effects of international agreements dealing with the climate challenge.

EURO4M provides valuable guidance as it is set to develop Europe's capacity to monitor climate change in near-real time, and over extended time periods. Such description

of the evolution of the Earth system components is set to be undertaken by the collection of regional observation datasets of Essential Climate Variables (ECV), such as near surface temperature, and by performing a comprehensive model based regional reanalysis. Thereby Europe's capacity to systematically monitor climate variability and change will be extended in a cost effective manner.

Whilst EURO4M will provide time series showing the changes in climate over time, the project will also be able to report in near-real time during emerging extreme events.

Indeed, as the primary source of timely, targeted and reliable information about the state of the climate in Europe, EURO4M holds the potential to evolve into a future GMES service on climate change.



ALBERT KLEIN TANK
IS PROJECT COORDINATOR



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EURO4M strengthens Europe's capacity to monitor climate variability and change, delivering the most complete time series in this field covering all of Europe, and potentially establishing a foundation for a GMES service on climate change.

QUESTIONS & ANSWERS

What do you want to achieve with this project?

EURO4M aims to become the primary source of timely and reliable information about the state of the climate in Europe. This will help us better understand and predict climate change, extreme conditions and weather related hazards, so that society can respond in the best possible way.

Why is this project important for Europe?

Through EURO4M, Europe will improve its climate monitoring capacity. For the first time, atmospheric observations from ground-based sources, satellites and model based regional re-analysis will be combined seamlessly for long-term climate monitoring and adaptation policy support.

How does your work benefit European citizens?

Citizens will be able to utilize the innovative and integrated data products and services from EURO4M. These will tell them how the climate is changing in Europe, in their country and in the place they live at the appropriate level of aggregation and standardization.

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LIST OF PARTNERS

- Royal Netherlands Meteorological Institute, Netherlands
- Met Office, United Kingdom
- University Rovira i Virgili, Spain
- National Meteorological Administration, Romania
- Meteo Swiss, Switzerland
- Deutscher Wetterdienst, Germany
- Swedish Meteorological and Hydrological Institute, Sweden
- University of East Anglia, United Kingdom
- Météo France, France

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PROJECT INFORMATION

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(EURO4M)
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