UKRI

Natural
Environment
Research Council

Webinar Series

Constructing a Digital Environment

ANALYTICS

Topic: Opportunistic Data for Weather Forecasting
Speaker: Malcolm Kitchen, Met Office, Exeter
Time: Friday 8th April 11:00GMT
Registration and further details:
https://ukri.zoom.us/webinar/register/WN_9odfE46BQI63U0wTm24Gzg

The economic benefits of accurately targeting weather warnings is driving the development of higher resolution operational forecasting models. The level of detail at which we are able to forecast the weather now exceeds the level at which we can observe it. Real-time observations are vital for situational awareness and verification of the forecasts, so it is important that the 'resolution gap' is not allowed to widen. It is not economically or practically feasible to bridge the gap through massive expansion of conventional observing networks. Hence attention is focussed on alternative sources of low-cost/high volume information on the atmospheric state.   This seminar will describe some successful developments of opportunistic data sources, along with some failures and work in progress. Opportunities for involvement of the academic sector in this area of R&D will be outlined.

The **NERC Constructing a Digital Environment (CDE) programme** is running a series of online Webinars, aiming to develop the digitally enabled environment, benefitting scientists, policymakers, businesses, communities and individuals. The webinar series seeks to showcase the latest expertise in digital technology and methodologies applied to the environment, illustrating 'the arc' from data gathering, its management and curation, analysis and presentation to decision makers, covering topics such as distributed networks of sensors, new sensor technology, novel forms of data informatics (e.g. data lakes, data cubes), data analytics, uncertainty, data labs, apps, skins and tools to support decision makers across the society.

https://digitalenvironment.org/cde-webinar-series