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## **ECMWF new data centre in Bologna : new opportunities for using Open Data**

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In the next future the new data centre of the European Centre for Medium-range Weather Forecasts (ECMWF) based in Reading U.K. will be moved to Bologna, Italy.

The building is to be delivered to ECMWF by 2019 and will host the Centre's new supercomputers, whilst the Centre's headquarters are to remain in the UK.

This centre will host one of the few global dataset of environmental data used for global numerical weather prediction as well as for climate and many other purposes that include the Climate data store (CDS) developed by ECMWF and its subcontractors within Copernicus. The use of the CDS toolbox on the top of re-analyses offers potential for implementation of data mining and deep learning algorithms. A list briefly described of topics that could be studied using new learning algorithms on ECMWF data will be given, and on the other side the 4D-Var data assimilation system used inside the ensemble method as an example of the ensemble based dynamical forecasts as used in the modern meteorological community, are presented.

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**Session Classification:** Coffee Seminar