17/9/2018

To: Dr. Peter Bauer
Deputy Director
Research Department
European Centre for Medium-Range Weather Forecasts
Shinfield Park, Reading RG2 9AX, UK

Dear Dr. Bauer,

ECMWF has been entrusted by the European Commission to implement the Copernicus Climate Change Service (C3S).

In its role of Entrusted Entity of C3S, we would like to highlight that many of the C3S datasets and products rely on outputs and information derived from earth system modelling: Climate reanalysis, Essential Climate Variables (ECVs), Seasonal Forecasts, long term Climate Projections. In the future, C3S ambitions to add two important components to its current portfolio: Attribution (of extreme events), and decadal predictions, both also fully dependant on earth system models. The quality and credibility of the C3S service, and most importantly, its value to the users, critically depends therefore on the reliability of the underpinning models.

Reducing systematic biases in current weather and climate simulations, improving the representation of physical processes of operational models of the global atmosphere, land and oceans, are paramount to improve the fidelity of the information provided by the current and new elements of the C3S Service. Moreover, a much higher horizontal resolution of the models, down to 1 km, would allow the development of a whole new range of highly demanded climate services. All our current and future users, from policy makers to business, as well as the society in general, would greatly benefit from those improved products in an area as important for the future of our planet as climate change.

Yours sincerely

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