

To:

Dr. Peter Bauer
Deputy Director
Research Department
European Centre for Medium-Range Weather Forecasts
Shinfield Park, Reading RG2 9AX, UK
+44 118 949 9080

cc.

Prof. Torben Røjle Christensen
Prof. Merete Bilde
Prof. Henrik Skov

Subject: Endorsement Letter

Dear Dr. Peter Bauer,

This letter from Aarhus University (AU) is to endorse the Flagship candidate project ExtremeEarth. We at AU represent a wide range of relevant existing research on the physical, chemical and biological processes important for climate change in the Arctic. We hold long time series of measurements of key parameters from the Arctic and especially the possibility of carrying out new experiments e.g. at our large infrastructure platforms that include the Zackenberg in North-East Greenland, laboratory facilities at Aarhus University and Villum Research Station in North Greenland.

We are using field measurements, laboratory experiments, monitoring data, climate models and atmospheric chemistry transport modelling of short-lived climate forcers (e.g. black carbon, ozone, and methane) and CO₂. Our focus is on the natural environments including the North Atlantic and Arctic Ocean, the circum-Greenland coastal waters and sediments, freshwater environments, terrestrial ecosystems and the surface of the Greenlandic ice sheet. We are strongly connected with several both national and international networks such as the Greenland Ecosystem Monitoring (GEM) program, Arctic Monitoring And Assessment program (AMAP), the EU Integrated Carbon Observing System (ICOS), the EU programmes; INTERACT, EUROCHAMP 2020, ACTRIS and the ERAPLANET projects iCUPE and iGOSP.

AU find the Flagship candidate project a very important initiative and potentially lead to new paradigm for Arctic research. Therefore, AU is happy to endorse ExtremeEarth. The

Deans Office

Niels Chr. Nielsen

Dean

Date: 09. Februar 2018

Mobile Tel.: +45 2 2899 2541
E-mail: dean.scitech@au.dk

Web: www.scitech.au.dk

Sender's CVR no.: 31119103

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AU endorsement of the Flagship candidate project ExtremeEarth implies that AU supports the scientific, technological and programmatic objectives of ExtremeEarth. This endorsement does not at this point include any legal or financial commitments towards the ExtremeEarth project.

Yours sincerely,

Niels Christian Nielsen
Dean of Faculty of Science & Technology
Aarhus University
Denmark