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Letter of Commitment for the ExtremeEarth initiative

Dear Dr. Bauer,

in my role as coordinator of the H2020 project ESIWACE and also its second phase which is in the grant preparation phase, I herewith express my strong support for the ExtremeEarth proposal, and the commitment of the ESIWACE Center of Excellence to contribute to the goals of ExtremeEarth.

A central objective of ESIWACE is to enable leading European weather and climate models to leverage the available performance of future high performance computing systems and to support the climate and weather research community in using these models. This clearly concurs with the goal of ExtremeEarth *to develop domain-specific processing capabilities at the interface between edge, cloud and centralized high-performance computing exploiting existing and emerging new data sources.*

The challenges our community is facing with respect to both a) the complexity of the Earth System and consequently the software and data infrastructure needed to predict its evolution and b) the complexity of upcoming HPC hardware and software systems, cannot be met by individual institutes or projects but needs a mission-oriented inter-disciplinary approach.

I am convinced that ExtremeEarth if successful as a European Flagship or Mission will have invaluable positive impact on science, society and economy.

Sincerely,



Dr. Joachim Biercamp



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