ENES, the "European Network for Earth-System modelling", established a Task Force in late 2011 to help addressing issues related to simulation using high-performance computing, the so-called HPC-TF. The HPC-TF has been serving the past IS-ENES2\(^1\) infrastructure project and is now serving the ESiWACE\(^2\) Centre of Excellence. A one-page newsletter will be produced on a regular basis, to bring in contained way information of likely interest to a larger community. It is also available at https://verc.enes.org/computing/hpc-collaborations/hpc-taskforce

1. The HPC-TF has very recently prepared a document entitled "Update of ENES strategy for HPC", prepared as an IS-ENES2 Milestone, MS2.5, see: https://verc.enes.org/ISENES2/documents/milestones/is-enes2_ms2-5_update-of-enes-strategy-for-hpc/view

In this document, the main scientific issues that need to be resolved to address the climate challenges are briefly described (Improving predictability and reducing uncertainties, by increasing ensemble size and/or spatial resolution). Possible strategies for climate models are presented from two points of view: incremental development of existing models and more revolutionary approaches for new generation models. Further, the consequences with respect to the computing ecosystem are discussed, including opportunities and limitations of shared Tier-0 and Tier-1 resources on the one hand, and a climate-dedicated world-class facility on the other.

2. The PrACE Scientific Case, produced for the period 2012-2022, see http://www.prace-ri.eu/prace-the-scientific-case-for-hpc/, is presently under review. The HPC-TF is starting to update the "Climate" and "Weather" parts of this document, in conjunction with the EXDCI\(^3\) project. The updated PrACE Scientific Case should be available by the end of 2017.

3. The HPC-TF is organizing a special session during the forthcoming HPC Summit Week\(^4\) (Barcelona, May 15-19). This special session will be devoted to discussing various issues and projects related to weather and climate simulations. It will take place on Tuesday, May 16, from 2:30 until 6:30 pm, and include brief presentations of related projects, as well as a joint discussion with the EoCoE\(^5\) centre of excellence. The final agenda is still under construction, and will be shortly available at https://verc.enes.org/community/announcements/events/european-hpc-summit-week-2017.

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\(^1\) Infrastructure for the ENES (https://is.enes.org/)
\(^2\) Centre of Excellence in Simulation of Weather and Climate in Europe (https://www.esiwace.eu/)
\(^3\) European Extreme Data & Computing Initiative (https://exdci.eu/)
\(^4\) https://exdci.eu/events/european-hpc-summit-week-2017
\(^5\) Energy oriented Centre of Excellence in computing applications (http://www.eocoe.eu/)