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The importance of grid computing in the investigation of climate and its change

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Summary

The complexity of the atmosphere and the multiple interactions that determine its behavior impose limitations on our ability to predict the future course of Earth's global climate. Climate models are powerful tools used in atmospheric science to simulate processes of the atmosphere and help us understand climate and project future change. The increasing demand for higher spatial and temporal resolution drives the need for computational and storage resources of enormous sizes. Grid infrastructures provide an option to overcome this problem, by enabling more computationally expensive applications with improved accuracy. The presentation will focus on current applications and use cases of climate models and will stress the importance of having a robust Grid Infrastructure into the investigation of climate and its change.

Description

Eleni Katragkou is a climate scientist and a lecturer in the Aristotle University of Thessaloniki, Greece. She has a degree in physics and specialised in Atmospheric Physics. Katragkou participates in several scientific projects, mostly funded by the EU and has been awarded with a L'Oreal-UNESCO prize for her research on the study of climate change and its impact on air quality over time. She is an EGI Champion.

Presenter: Dr KATRAGKOU, Eleni

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