BSC Computational Earth Sciences

The Computational Earth Sciences group ensures an efficient use of the computational resources by the research groups in the Earth Sciences (ES) department:

- Providing High Performance Computing (HPC) expertise for Earth system models
- Developing HPC user-friendly software frameworks for Earth system modelling and management of operational systems
- Providing data services
- Designing and maintaining an IT infrastructure for BSC-ES

Tools developed

- **Autosubmit**
Python-based tool to create, manage and monitor experiments using computing clusters and HPCs

- **S2dv**
Set of tools to assess model's performance

- **MapGenerator**
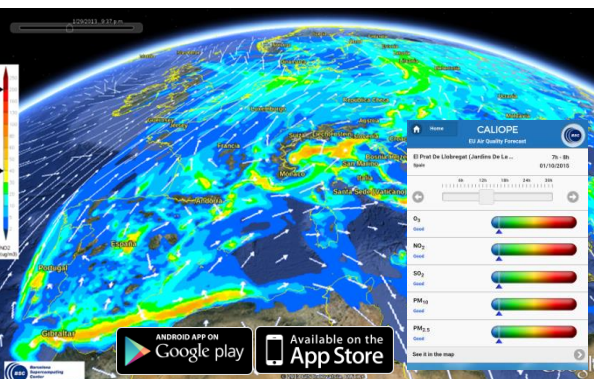Python toolbox to process and visualize datasets

- **Ocean & Atmosphere diagnostics**
Set of functions to compute variables derived from model outputs into standards usable by other tools

- **CALIOPE App**
Mobile App that provides air quality forecast from CALIOPE system for the Iberian Peninsula & Europe

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