# BSC hosts the 2nd European Earth System and Climate Modeling School

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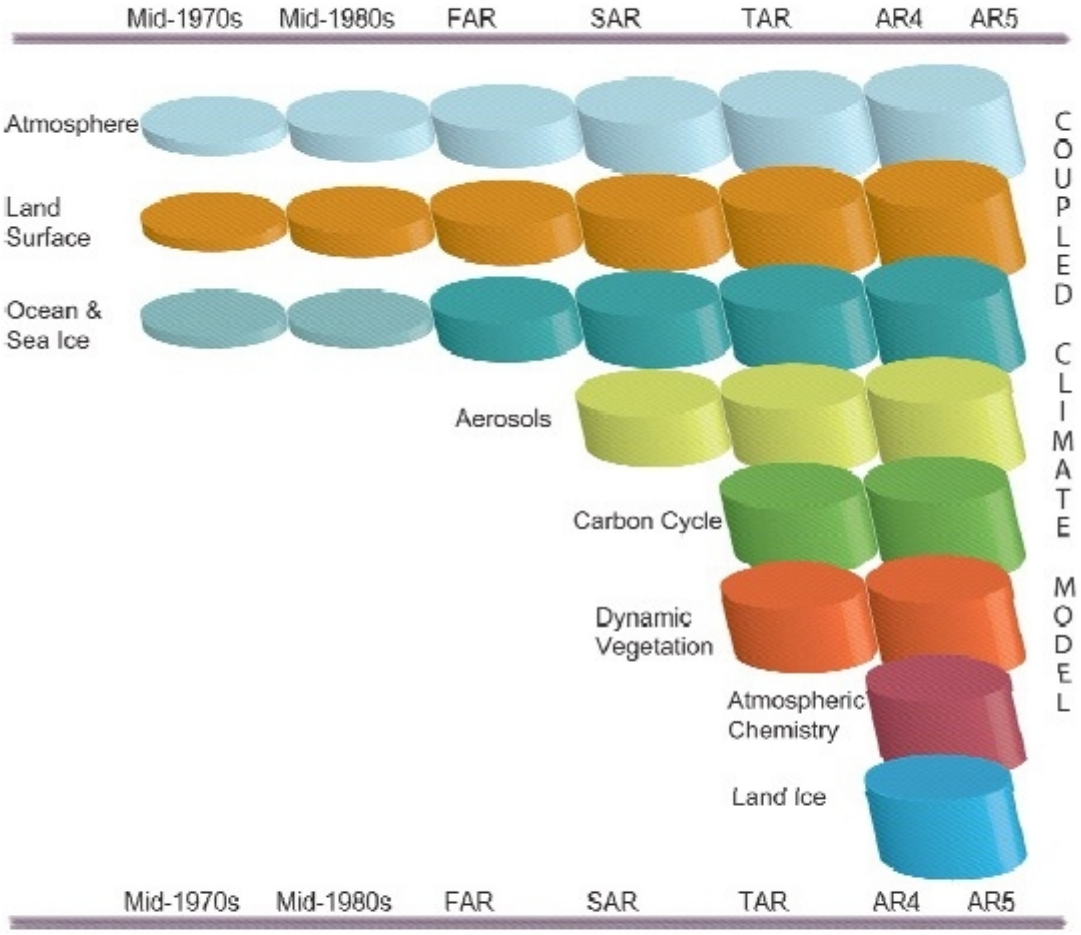


**Figure 1.13:** The development of climate models over the last 35 years showing how the different components were coupled into comprehensive climate models over time. In each aspect (e. g. the atmosphere, which comprises a wide range of atmospheric processes) the complexity and range of processes has increased over time (illustrated by growing cylinders). Note that during the same time the horizontal and vertical resolution has increased considerably e.g., for spectral models from T21L9 (roughly 500 km horizontal resolution and 9 vertical levels) in the 1970s to T95L95 (roughly 100 km horizontal resolution and 95 vertical levels) at present, and that now ensembles with at least three independent experiments can be considered as standard.

Barcelona Supercomputing Center will host from 10th to 20th of June the 2nd European Earth System and Climate Modeling School (E2SCMS) which merges two very successful summer schools: the Earth System Modelling School by MPI for Meteorology (MPI-M, http://issmes.enes.org) and the Climate Modelling Summer School of the British National Centre for Atmospheric Science (NCAS, http://ncasweb.leeds.ac.uk/climatesummerschool).

Three European models - HAD-GEM, MPI-ESM and EC-Earth - will be employed at the E2SCMS.

The school is offering the unique opportunity to study and compare the behavior of the three models for the same climate problem sets. The school combines a series of lectures and discussions with practical modelling and data processing exercises, and will include the interpretation and presentation of simulation results.

Attendance of international experts in Earth system and climate modelling will ensure an advanced and stimulating learning environment for participants.

This summer school is launched by the European Network for Earth System modelling (ENES) with support of the FP7 project IS-ENES2

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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