

Earth Sciences Simulation Environments @ BSC

Tuesday 12 November 2019 - Thursday 14 November 2019

Barcelona BSC Campus Nord

Agenda

Day 1 (12 Nov)

9:30-9:45 Welcome and introduction of the BSC Earth Sciences Department
9:45-10:00 Technical and logistic information
10:00-11:00 Introduction to earth science fundamentals and modelling
11:00-11:30 Coffee break
11:30-13:00 Introduction to Linux and HPC, BSC facilities, PRACE and RES
13:00-14:00 Lunch break
14:00-15:30 HPC hands-on tutorial. At the end of this tutorial, the students will be able to compile and execute jobs on Mare Nostrum 4
15:30-16:00 Coffee break
16:00-17:30 Introduction to analysis and visualisation tools for model outputs (s2dverification, MapGenerator, CDO, NCO, panoply, ncview)

Day 2 (13 Nov)

8:30-9:15 Visit to MareNostrum 4
9:30-10:30 Lecture on the EC-EARTH climate model
10:30-11:00 Lecture on setting up and running the model with Autosubmit
11:00-11:30 Coffee break
11:30-13:00 Model hands-on tutorial. Students will run with a prepared case
13:00-14:30 Lunch break (social lunch)
14:30-16:30 Analysis hands-on tutorial. Students will apply tools for analysis and visualisation to the outputs created in the morning

Day 3 (14 Nov)

9:30-10:30 Lecture on the NMMB-MONARCH mode
10:30-11:00 Lecture on setting up and running the model
11:00-11:30 Coffee break
11:30-13:00 Model hands-on tutorial. Students will run a prepared case.
13:00-14:00 Lunch break
14:00-16:00 Analysis hands-on tutorial. Students will apply tools for analysis and visualisation to the outputs created in the morning

END of COURSE