

Earth Sciences Seminar

The objective of this seminar is showing researchers the computational applications and problems in the study of Earth Sciences. Specifically is analyzed the usage of supercomputing in the next areas: Climate, Weather and Seismic.



CLIMATE
MODELLING
FORECAST
WEATHER
SEISMIC
HPC resources

RES Scientific Seminars 2014

Earth Sciences Seminar

29th May, 2014

VENUE

Meeting room: Sala Multimedia
Building: B3
Campus Nord
Jordi Girona, 31
E-08034 Barcelona

INFORMATION AND REGISTRATION IN:

www.bsc.es/res-earth-sciences-2014



GOVERN DE CATALUNYA
MINISTERIO DE ECONOMIA
Y COMPETITIVIDAD



Barcelona
Supercomputing
Center
Centre Nacional de Supercomputació



The objective of this seminar is showing researchers the computational applications and problems in the study of Earth Sciences. Specifically is analyzed the usage of supercomputing in the next areas: Climate, Weather and Seismic.

To achieve the goal of the seminar, renowned scientists and researchers will share with the attendees their findings at developed projects and studies.

REGISTRATION CLOSED

Date:

Thursday, 29 May, 2014 (All day)

Agenda:

09.00h – Registration

Session 1/10h – 10.30h: Opening & Available supercomputing resources

10.00h – Welcome & Introduction

(Sergi Girona, RES Coordinator)

10.10h – Supercomputing resources in BSC-CNS, RES & PRACE

(Sergi Girona, RES Coordinator)

Session 2/10.30h – 12.00h: Climate

Chairman: José Maria Baldasano.

10.30h – Assessment of the limit of initial-condition useful skill in interannual climate prediction

(Francisco J. Doblas-Reyes, Institut Català de Ciències del Clima)

11.00h – Simulation of climate change in the Mediterranean sea with a regional coupled ocean-atmosphere model

(William Cabos Narvaez, Universidad de Alcalá)

11.30h – Regional climate modelling of South America continent: present and climate change results from the first

coordinated ensemble RCM simulations over the region (CLARIS-LPB EU project)

(Enrique Sánchez Sánchez, Universidad de Castilla-La Mancha)

12.00h – Coffee Break

Session 3/12.30h – 14h: Weather & Air Quality

Chairman: Francisco J. Doblas-Reyes.

12.30h – Mesoscale atmospheric reanalysis IPRA using 3DVAR over the Iberian Peninsula

(Jon Saenz, Universidad del País Vasco/Euskal Herriko Unibertsitatea)

13.00h – Desert dust modelling and forecasting

(Sara Basart, Barcelona Supercomputing Center)

13.30h – CALIOPE Air Quality Forecasting System: Computational Resources and Database

(José María Baldasano & Kim Serradell, Barcelona Supercomputing Center)

14.00h – Lunch Break

Session 4/15:30h – 17.30h: Seismic ,Atmospheric modelling and Forest Conservation

Chairman: William Cabos Narvaez

15.30h – Time reverse simulations in regional seismology

(Daniel Stich, Instituto Andaluz de Geofísica)

16.00h – WRF4G project: A framework for executing WRF experiments on distributed infrastructures

(Antonio S. Cofiño, Universidad de Cantabria)

16.30h – Development of a multiscale online atmospheric-chemistry model: from global to regional

experiments

(Oriol Jorba, Barcelona Supecomputing Center)

17.00h – Fuel moisture content models to forest fire behaviour forecast

(Roberto San José, Universidad Politécnica de Madrid)

17.30h – Adjourn

Registration:

[Access here to the registration for the Earth Sciences Seminar](#)

Target group:

The seminar is aimed at all the RES users, researchers and students. It will be conducted in English.

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Contact Us:

Please contact with trainings-res@bsc.es in case you require further information.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

Source URL (retrieved on 18 Sep 2024 - 14:28): <https://www.bsc.es/es/news/bsc-news/earth-sciences-seminar>