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- Martin Stendel (Danish Meteorological Institute, DMI, Denmark)
- Maria Vittoria Struglia (Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile, ENEA, Italy)

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- Markus Meier (IOW, Germany)
- Javier Soto-Navarro (UIB, Spain)
- Marcus Reckermann (International Baltic Earth Secretariat at HZG, Germany)
- Silke Köppen (International Baltic Earth Secretariat at HZG, Germany)

**Co-organising Institutions**



**Time Table**

Abstract Submission Deadline	12 January 2018
Notification of Authors	22 January 2018
Registration open	22 January 2018
Registration deadline	26 February 2018
Workshop	14-16 March 2018

[www.baltic.earth/mallorca2018](http://www.baltic.earth/mallorca2018)



**Universitat Illes Balears, Edifici Sa Riera**  
**Calle de Miquel dels Sants Oliver 2**  
**07013 Palma de Mallorca, Spain**

The workshop takes place at the Universitat de les Illes Balears in Palma de Mallorca, the capital of the Balearic islands. With about 500.000 inhabitants, Palma is a bustling mediterranean city with a picturesque historic centre. It looks back on a rich history with various cultural influences, with roman, byzantine and islamic periods. Palma is situated on the south coast of Mallorca on the Bay of Palma, and the beautiful mountain range of the Serra de Tramuntana stretches to the north.

Please check the website for any last minute changes, on the venue, how to get there as well as information on accomodation. Travel funds may be available, please see the website.



For travel, hotels and public transportation, see  
[www.baltic.earth/mallorca2018](http://www.baltic.earth/mallorca2018)



**Regional Climate System Modelling**  
**for the European Sea Regions**

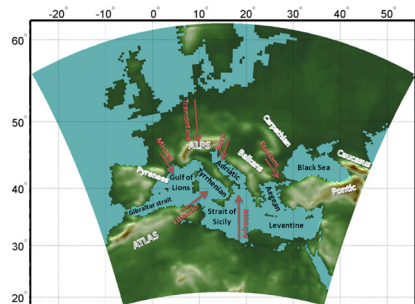


**Universitat Illes Balears**  
**Palma de Mallorca, Spain**  
**14 - 16 March 2018**

**Announcement**  
**Call for Papers**

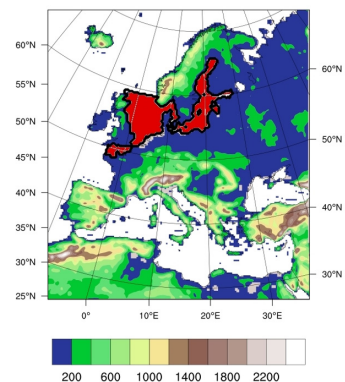
## Objectives and expected outcome

The aim of this workshop is to share recent progress in the understanding of regional climate variability with special focus on coupled effects between sea, atmosphere, land and anthroposphere. In this workshop, we will focus on European seas and their catchment areas like the Mediterranean Sea, Black Sea, North Sea, Baltic Sea and Arctic Ocean - highly sensitive areas where global models fail to give reliable information about changing climate because key processes are not properly resolved.



Maximum model integration area for the MedCORDEX coupled systems. From: Ruti et al. 2016, Med-CORDEX Initiative for Mediterranean Climate Studies. BAMS July 2016; DOI:10.1175/BAMS-D-14-00176.1

Coupled atmosphere-sea ice-ocean models have been developed further in the recent past by using a hierarchy of sub-models for the Earth system. In these Earth system models, regional climate models are combined with sub-models for surface waves, land surface and vegetation, hydrology, land and marine biogeochemistry, the marine carbon cycle as well as marine biology and food webs. These model systems aim to investigate the impact of climate change on the entire terrestrial and marine environment.



RCA4 domain and orography (courtesy Christian Dieterich, SMHI)

and the assessment of extreme and high impact events.

Contributions related to any aspect of the description and modelling of regional climate are welcome. Some of the topics addressed in the workshop will be the description of present and future regional climates, the development and evaluation of regional climate system models

## Sessions

### Session 1: Development and evaluation of regional climate system models and reanalyses

New regional reanalyses and coupled atmosphere - ice - ocean - land surface/vegetation - biogeochemical/ carbon - food web models are presented and the results of hindcast simulations are compared to observations. The problem of initialization of regional climate system models and the application of ocean synthesis to this purpose are also considered.

Further, model improvement, new data sets for model evaluation and bias correction methods are particularly welcome.

### Session 2: Studies on the added value of air-sea coupling and/or high resolution

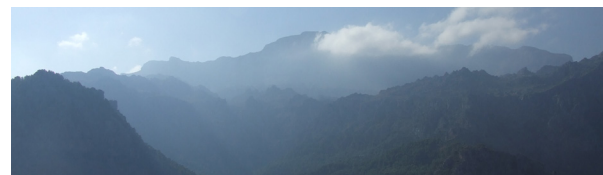
Contributions on land-atmosphere, ocean-atmosphere and land-ocean (rivers, wetting and drying) interactions are encouraged. In particular, discussions on benefits (or lack of them) from the use of improved regional climate system models are welcome.

### Session 3: Regional process studies and extreme and high impact events

Studies of all kind of regional processes including extreme and high impact events are welcome. The focus of the session will be on the basic scientific understanding of those processes and on assessing impacts on key areas with different adaptation potential.

### Session 4: Climate change impact studies and uncertainty assessments of projections using coupled model simulations

Dynamical downscaling of Earth System Models, multi-model ensemble studies and multi-stressor approaches are expected. Studies comparing different emission scenarios and scenarios of other drivers of the earth system like environmental stressors and studies analyzing the effects of mitigation measures are welcome.



## Call and Guidelines

### Call for Papers

Contributions in accordance with the workshop topics as outlined above, both oral or as poster, are welcome. Abstracts in English language, maximum of two pages, including figures, tables or diagrams, are invited to be submitted to the International Baltic Earth Secretariat electronically.

### Guidelines and deadlines

Abstracts must be submitted electronically using e-mail. An electronic abstract template including all format definitions is available at the workshop website:

[www.baltic.earth/mallorca2018](http://www.baltic.earth/mallorca2018)

This template shall be downloaded and used for the preparation of abstracts. Authors are advised to strictly follow the formats given in this template. Other formats or paper/fax copies cannot be accepted.

Abstracts must be submitted to the International Baltic Earth Secretariat at [balticearth@hzg.de](mailto:balticearth@hzg.de) by **12 January 2018**.

It should be noted that only a limited number of submitted abstracts can be accepted for oral presentations due to limited time. Therefore the workshop committee reserves the right to allocate orals to posters if necessary.

**Abstract Deadline: 12 January 2018**  
**Notifications of authors: 22 January 2018**  
**Registration Deadline: 26 February 2018**

Due to limited room capacity, registrations of authors (oral and poster) will be handled preferentially.

An abstract volume will be distributed at the workshop.

See website for further details at [www.baltic.earth/mallorca2018](http://www.baltic.earth/mallorca2018)

### Credits

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