

SPECIAL PROJECT PROGRESS REPORT

Progress Reports should be 2 to 10 pages in length, depending on importance of the project. All the following mandatory information needs to be provided.

Reporting year 2009.....

Project Title: Numerical experimentation with the EC-Earth system with special focus on the Mediterranean region.....

Computer Project Account: SPDKMEDC.....

Principal Investigator(s): Wilhelm May.....
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Affiliation: Danish Meteorological Institute.....

Name of ECMWF scientist(s) collaborating to the project
(if applicable)

Start date of the project: 2009.....

Expected end date: 2011.....

Computer resources allocated/used for the current year and the previous one
(if applicable)

Please answer for all project resources

		Previous year		Current year	
		Allocated	Used	Allocated	Used
High Performance Computing Facility	(units)			600,000	0
Data storage capacity	(Gbytes)			5,000	0

Summary of project objectives

(10 lines max)

The aim of the special project is to tune and use the EC-Earth system for investigating climate variability and change in the Mediterranean region. Because of various kinds of teleconnections with other parts of the globe a global coupled atmosphere-ocean model has to be applied in order to properly describe the climate in the Mediterranean region. The climate in the Mediterranean region is not only linked to the tropical and the extratropical Atlantic Ocean but is also affected by the Asian summer monsoon or the El Niño/Southern Oscillation. On the other hand, the climate in the Mediterranean region is characterized by various small-scale phenomena such as small-scale cyclones. The realistic simulation of such phenomena requires a rather fine resolution of the model system.....

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Summary of problems encountered (if any)

(20 lines max)

The standard EC-Erath system turned out not to be ready for the purposes of our project. Hence, we had to further develop the model system for our specific needs. The development work, however, was undertaken using DMI’s own high-performance computer.....

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Summary of results of the current year (from July of previous year to June of current year)

None so far.....
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List of publications/reports from the project with complete references

None so far.....
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Summary of plans for the continuation of the project

(10 lines max)

It is intended to investigate the feasibility to run DMI's version of the EC-Earth system on ECMWF's high-performance computer and possibly start an extended simulation at high resolution.....
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