

REQUEST FOR ADDITIONAL RESOURCES IN THE CURRENT YEAR FOR AN EXISTING SPECIAL PROJECT

MEMBER STATE: Germany

Principal Investigator¹: Univ.-Prof. Dr. Ulrike Langematz

Affiliation: Freie Universität

Address: Institut für Meteorologie
Carl-Heinrich-Becker-Weg 6-10
D-12165 Berlin
Germany

E-mail: ulrike.langematz@met.fu-berlin.de

Other researchers: Anne Kubin, Markus Kunze, Janna Abalichin

Project title: Ocean-Atmosphere Chemistry Climate Model Simulations for new WMO-SPARC-Chemistry Climate Model Validation (CCMVal) Initiative

Project account: SP DEWMO3

Additional computer resources requested for	Current Year
High Performance Computing Facility (units)	3.750.000
Data storage capacity (total) (Gbytes)	12000



Continue overleaf

¹ The Principal Investigator is the contact person for this Special Project

Technical reasons and scientific justifications why additional resources are needed

The requested computer resources were intended to be used for a long term climate simulation with a fully coupled Ocean-Atmosphere Chemistry Climate model.

Regarding the length of the intended simulation (more than 150 model years with full chemistry), which normally lasts 4 to 6 calendar months, we decided not to carry out any simulations before the switch off and restart of the AIX system in October 2012 to avoid any inconsistencies in the simulation due to the technical change/update of the AIX system.

Furthermore the fine tuning of the coupled model EMAC-MPIOM was more time consuming than expected. Recently, in May 2013, we could start the preparation for the installation and compilation procedures of the EMAC-MPIOM model, which requests more time than expected.

As a result the requested computer resources for the previous year (2013) were not used. The available resources for the current year (2014) are not sufficient to accomplish the proposed simulations with the EMAC-MPIOM model.