

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 2018 H1

Project Title: AerChemMIP aerosol-specific simulations with EC-Earth

Computer Project Account: spfiodon

Principal Investigator(s): Dr Declan O'Donnell

Affiliation: Finnish Meteorological Institute

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

Start date of the project: Jan 1 2018

Expected end date: Dec 31 2021

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)	-	-	30 500 000	0
Data storage capacity	(Gbytes)	-	-	57 000 GB	0

Summary of project objectives

(10 lines max)

The Project aims to use the global climate model EC-Earth to carry out a set of targeted simulations that will provide insight into the role of atmospheric aerosols in historical and future climate change. These simulations are to be performed within the context of the international model intercomparison project AerChemMIP, and will form a part of the EC-Earth consortium's contribution to CMIP6.

Summary of problems encountered (if any)

(20 lines max)

The EC-Earth model was, at the time of application, intended for release by October 2017. The model remains unreleased and still not in a condition where CMIP6 simulations can be performed. Furthermore, all the simulations proposed for this Project require that a multi-centennial preindustrial control run be completed. This is expected to take around three months to complete. The Project is therefore presently delayed by approximately one full year.

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

None.

List of publications/reports from the project with complete references

None.

Summary of plans for the continuation of the project

(10 lines max)

The Project can only be continued when the EC-Earth model is released and the preindustrial control run completed. This is possible at earliest September 2018 and probably later than that. It is therefore proposed to release the 2018 resources reserved for this Project. A new request will be sent for the following years.