

SPECIAL PROJECT FINAL REPORT

All the following mandatory information needs to be provided.

Project Title:	Chemistry and aerosol processes modelling within IFS in extension to CAMS activities
Computer Project Account:	spnlmacc
Start Year - End Year :	2018 - 2020
Principal Investigator(s)	V. Huijnen
Affiliation/Address:	Royal Netherlands Meteorological Institute (KNMI)
Other Researchers (Name/Affiliation):	

The following should cover the entire project duration.

Summary of project objectives

(10 lines max)

Within the Copernicus Atmosphere Monitoring Service (CAMS) modules for tropospheric and stratospheric chemistry, integrated in ECMWF's Integrated Forecasting System (IFS), are maintained and further improved within the CAMS tender on reactive gases modelling and assimilation, but does not cover extended scientific spinoff's from this work. This special project aims to provide us with in the computer resources needed for this. Topics under consideration are: 1) a further integration of tropospheric and stratospheric chemistry; 2) further integration of chemistry and aerosol subjects, particularly stratospheric aerosol and secondary organic aerosol; 3) Re-evaluate specific case studies, particularly the 2015 Indonesian fires. This special project is a follow-up of the previous one (2015-2017).

Summary of problems encountered

(If you encountered any problems of a more technical nature, please describe them here.)

No significant problems have occurred. Only limited resources have been used on account of this special project, and some activities have been postponed in alignment with particular CAMS project deliverables. Also developments have been accounted for through dedicated CAMS budget. Resources turned out insufficient to actually engage in spinoff activities

Experience with the Special Project framework

(Please let us know about your experience with administrative aspects like the application procedure, progress reporting etc.)

Support is going smoothly.

Summary of results

(This section should comprise up to 10 pages, reflecting the complexity and duration of the project, and can be replaced by a short summary plus an existing scientific report on the project.)

Eventually only a negligible fraction of the given resources on this special project has been spent, which explains why no results have been shown. Resources (including some spinoff activities) have been accounted on CAMS budget, which appears overall realistic.

List of publications/reports from the project with complete references

None

Future plans

(Please let us know of any imminent plans regarding a continuation of this research activity, in particular if they are linked to another/new Special Project.)

None at this stage within the framework of special project resources.