

CCMI Data Policy

The goal of the IGAC/SPARC Chemistry-Climate Model Initiative (CCMI) is to improve the performance of troposphere/stratosphere resolving chemistry-climate models (CCMs) and their underlying GCMs (General Circulation Models) through process-oriented evaluation, along with discussion and coordinated analysis of science results.

Achieving these goals requires extensive comparisons and evaluations of a wide range of output from a large number of CCMs. This model output is being stored in the CCMI-1 Archive at the British Atmospheric Data Centre (BADC) for the convenience and needs of investigators participating in CCMI.

CCMI and participating modeling groups are willing to allow investigators outside of the CCMI community to have access to the Archive for the purposes of scientific research and furthering the goals of CCMI. After an initial phase of restricted data use by the CCMI community, the data of most models (see detailed list on http://www.met.reading.ac.uk/ccmi/?page_id=251) will become publicly available for both scientific and commercial use. This document sets out a policy for users of CCMI model output both within and outside the core CCMI activities. This policy seeks to strike a balance between protecting the work of the modeling groups and fostering legitimate use of the data sets.

A) Model Output Policy Guidelines:

1) Above all, CCMI collaborators and other users are expected to respect the interests of the CCM PIs and their research groups in the interpretation, presentation, and publication of the model output. The best way to achieve this is for a routine line of communication to be opened with the model PIs for collaborators to discuss model output and their research. This guideline implicitly recognizes the complexity of the models and interpretive efforts, and the possibility of ongoing scientific work by the model PIs that has yet to be published or otherwise made available to others.

2) Publication of model results and their interpretation in the scientific literature is encouraged. **The CCMI phase 1 (CCMI-1) data policy is currently in PHASE 1:**

Those wishing to use the output from CCMI model runs during phase 1 of the project are requested to become formal CCMI collaborators following the guidelines under B) of this policy document.

- **PHASE 1:** *Restricted use policy for all model data.* The phase 1 policy allows use of model output by 'CCMI Collaborators' (see above) but includes the obligation to offer co-authorship for model PIs during this time. CCMI collaborators will need to have provided the title, an abstract and a list of data that will be used in their study for the CCMI website (see point A above). CCMI and BADC should be explicitly acknowledged in papers and the models need to be properly referenced (see below wording).

- **PHASE 2:** after 1.5 years from when the last model simulations are submitted to the data archive, the *model data will be made publicly available* for use by any researcher or other users. However, it is strongly recommended that users send evaluations, draft presentations, or papers to model PIs and CCMI coordinators

(m.i.hegglin@reading.ac.uk and lamar@ucar.edu) two weeks before submission for notification and for the possibility to comment within this 2-week period for quality control. Model groups, CCMI and BADC should be explicitly acknowledged in papers and the models need to be properly referenced.

Please refer to the following dataset reference in your publications, in addition to specific references on the models you use in your study:

Hegglin, M. I. and J.-F. Lamarque (2015); The IGAC/SPARC Chemistry-Climate Model Initiative Phase-1 (CCMI-1) model data output, NCAS British Atmospheric Data Centre, date of citation. <http://catalogue.ceda.ac.uk/uuid/9cc6b94df0f4469d8066d69b5df879d5>

In addition, include the following acknowledgement in any papers using CCMI data:

"We acknowledge the modeling groups for making their simulations available for this analysis, the joint WCRP SPARC/IGAC Chemistry-Climate Model Initiative (CCMI) for organizing and coordinating the model data analysis activity, and the British Atmospheric Data Centre (BADC) for collecting and archiving the CCMI model output."

PI Contact information for each model, the appropriate scientific reference for model description, and language for acknowledgements is listed on the CCMI webpage (http://www.met.reading.ac.uk/ccmi/?page_id=13).

3) Occasionally, model output contributed to the archive has been found to contain errors of various sorts. In such cases, the erroneous output will be withdrawn or replaced. This will be noted at the CCMI web site in an errata and notes page (http://www.met.reading.ac.uk/ccmi/?page_id=255). The errata page should be checked frequently to avoid working with erroneous output, and to determine whether any of the downloaded files need to be updated or discarded. CCMI collaborators who find undetected errors in model output are asked to contact the responsible modeling group.

4) CCMI Collaborators are not allowed to give others outside of CCMI access to the Archive, or forward data downloaded from the Archive. Instead, they should direct other interested users to become CCMI Collaborators themselves by proposing a research activity and then accepting this CCMI model output policy.

5) CCMI model output is not to be used for commercial (profit making) activities within Phase 1 of the CCMI project. **Important!** CCMI model output from models highlighted under http://www.met.reading.ac.uk/ccmi/?page_id=251 are not to be used for commercial (profit making) activities at any stage of the project.

6) Please inform the coordinators of CCMI (m.i.hegglin@reading.ac.uk and lamar@ucar.edu) on the status of your paper (submission, publication).

B) Becoming a formal CCMI collaborator:

1) Fill in below table with names of participating researchers, a list of data that will be used, and short abstract of the proposed research and submit it to m.i.hegglin@reading.ac.uk. This information will be communicated to the model PIs and made available on the CCMI webpage http://www.met.reading.ac.uk/ccmi/?page_id=23

Contact Information of principal investigator:

Name:
Position:
Institution:
Address:
Email:

Date and Location:

Signature:

	CCMI Collaborators	Title	Abstract	CCMI-1 Simulations that are required for the analysis	Diagnostics (if already available)	Output (if more than monthly means, please prioritize into DESIRED and MINIMUM)	Observations
1.							

2) **Return a signed and scanned copy of this CCMI Model Output Policy document to m.i.heggin@reading.ac.uk.** Upon returning the document, new CCMI Collaborators will formally receive access to the password-protected Archive.

3) Follow http://www.met.reading.ac.uk/ccmi/?page_id=251 for instructions on how to get access to the CCMI Archive at BADC.