

CCMVal-2 Questionnaire: Convection, Clouds and Microphysics

1. Identification

- * 1. Please enter your memorable word - eg the name of your model. This is used to enable us to link the submissions you make in the different parts of the CCMVal questionnaire.

2. Convection

The convection parameterisation scheme in your model

2. Describe the convection parameterisation scheme

- | | |
|---|--|
| <input type="checkbox"/> Vertical momentum transport | <input type="checkbox"/> Radiative effects of anvils |
| <input type="checkbox"/> Mass flux determined by CAPE | <input type="checkbox"/> Shallow and deep convection |
| <input type="checkbox"/> Bulk mass flux scheme | <input type="checkbox"/> Entrainment |
| <input type="checkbox"/> Penetrative convection effects included | <input type="checkbox"/> Detrainment |
| <input type="checkbox"/> Representation of convective scale updrafts and downdrafts | |

Other (please enter as a comma separated list)

3. Is the convection parameterisation connected to the following parts of you model:

- | | | |
|---|---|--|
| <input type="checkbox"/> Radiation Scheme | <input type="checkbox"/> Aerosol Scheme | <input type="checkbox"/> Chemistry Model |
|---|---|--|

4. Enter the name of the convection parameterisation scheme

5. Enter a reference for the convection parameterisation

doi	<input type="text"/>
Author(s)	<input type="text"/>
Year	<input type="text"/>
Title	<input type="text"/>
Journal	<input type="text"/>
Volume	<input type="text"/>
Pages	<input type="text"/>

6. Is the reference a book?

- Yes No

7. Enter a link to a web page with further information

3. Clouds

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The cloud parameterisation scheme in your model

8. Describe the cloud parameterisation scheme

Cloud area fraction

Detrainment

Bulk cloud value

Prognostic Cloud Water and Cloudiness

Entrainment

Other (please enter as a comma separated list)

9. Is the cloud parameterisation connected to the following parts of you model:

Radiation Scheme

Aerosol Scheme

Chemistry Model

10. Enter the name of the cloud parameterisation scheme

11. Enter a reference for the cloud parameterisation

doi	<input type="text"/>
Author(s)	<input type="text"/>
Year	<input type="text"/>
Title	<input type="text"/>
Journal	<input type="text"/>
Volume	<input type="text"/>
Pages	<input type="text"/>

12. Is the reference a book?

Yes

No

13. Enter a link to a web page with further information

4. Cloud Microphysics

The cloud microphysics parameterisation in your model

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14. Describe the cloud microphysics parameterisation

- Mixed phase
- Cloud droplets
- Cloud ice
- Temperature dependent partitioning of cloud droplets and ice
- Ice nucleation
- Water vapour deposition
- Raindrops
- Snow
- Graupel

Other (please enter as a comma separated list)

15. Is the cloud microphysics parameterisation connected to the following parts of you model:

- Radiation Scheme
- Aerosol Scheme
- Chemistry Model

16. Enter the name of the cloud microphysics parameterisation scheme

17. Enter a reference for the cloud microphysics parameterisation

doi	<input type="text"/>
Author(s)	<input type="text"/>
Year	<input type="text"/>
Title	<input type="text"/>
Journal	<input type="text"/>
Volume	<input type="text"/>
Pages	<input type="text"/>

18. Is the reference a book?

- Yes No

19. Enter a link to a web page with further information

5. Thank you

Thank you for completing the Convection Clouds and Microphysics part of the CCMVal questionnaire.