CCMVal-2 Questionnaire: Gravity Wave Parameterisation

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. Orographic Gravity Wave Drag

Specify orographic gravity wave drag sources and the propagation-dissipation model

2. Describe the source mechanism for the orographic gravity wave scheme.

- ○ Linear Mountain Waves
- ○ Hydraulic Jump
- ○ Envelope Orography
- ○ Statistical Sub-Grid Scale Variance
- ○ Non-Linear Calculation
- ○ More than two cardinal directions (ie more than EW & NS)

Other

3. Describe the orographic gravity wave propagation mechanism

- ☐ Linear theory
- ☐ Non-linear theory

Other

4. Describe the orographic gravity wave dissipation/breaking scheme.

- ☐ Total Wave
- ☐ Single Wave
- ☐ Spectral
- ☐ Linear

Other

5. Enter a reference for orographic gravity wave drag

doi

Author(s)

Year

Title

Journal

Volume

Pages

6. Is the reference a book?

- ☐ Yes
- ☐ No

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

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3. Non-Orographic Gravity Wave Drag

Specify gravity wave drag sources and the propagation-dissipation model for the spectral atmospheric gravity wave scheme.

8. Are spectral gravity wave sources coupled to the model's internal dynamics?

- ○ Yes
- ○ No

9. Describe the source mechanisms for the spectral gravity wave scheme

- ○ Convection
- ○ Precipitation
- ○ Background Spectrum
- ○ Spatially dependent
- ○ Temporally dependent

Other (please enter as a comma separated list)

10. Describe the spectral gravity wave propagation mechanism

- ○ Linear theory
- ○ Non-linear theory

Other

11. Describe the spectral gravity wave dissipation/breaking scheme.

- ○ Total Wave
- ○ Single Wave
- ○ Spectral
- ○ Linear

Other

12. Enter a reference for spectral atmospheric gravity wave drag

doi

Author(s)

Year

Title

Journal

Volume

Pages

13. Is the reference a book?

- ○ Yes
- ○ No

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

4. Thank you

CCMVal-2 Questionnaire: Gravity Wave Parameterisation

Thank you for completing the Gravity Wave part of the CCMVal questionnaire.