

Interactive comment on “Development and exploitation of a controlled vocabulary in support of climate modelling” by M.-P. Moine et al.

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Comments:

Overall comments:

The paper stresses the importance of additional metadata on climate models and experimental design in addition to the already used metadata with respect to data access and processing. A modular conceptual model for the entire scope of climate modelling metadata is presented and the importance of controlled vocabularies for climate model results inter-comparison is discussed. The evaluation process of controlled vocabularies is presented as well as their prototypical application in CMIP5. Beside the positive aspects in using CIM in CMIP5 drawbacks and gaps in this first application

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of CIM should be discussed in more detail in section 6 “Information Pipeline” in order to better allow for improvements in future applications of CIM. In section 7 “Summary” it would be helpful to see especially the completeness of the CMIP5 CIM repository and the quality of these CIM instances in order to get an information about the initial acceptance of the CIM concept by the modelling community.

Specific comments:

Page 2968, line 26: The growing number of scientific groups should be mentioned as well as motivation for more sophisticated data management including metadata and documentation.

Page 2972, line 21: For completeness the integration of a figure of the CIM scheme would be helpful.

Page 2982, line 5: Spelling error? Should “is capture” not be changed into “is captured”?

Pages 2997-3000: The resolution of Figs 4, 5a, 5b and 6 should be increased. Details are not really readable.

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