

**NCAS - Climate**

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Thursday, 15 September 2011

Dear Dr Rutt

I am pleased to write in support of your proposal to develop Glimmer-CISM further through international collaboration. Thanks to your earlier work, Glimmer-CISM is already a useful tool, which is one reason why it was adopted for use with Met Office climate models. I think it would be very valuable to the UK and international climate modelling communities to construct on the basis of the existing Glimmer-CISM a more flexible and well-documented framework in which various climate models and varieties of ice-sheet model could be coupled easily. This would yield both a practical and technical benefit in saving duplication of effort, and a scientific benefit in bringing together groups of researchers who have a common tool. The proper design of the interface will require a lot of consultation and careful thought to make it both sufficiently versatile and convenient, and the workshops you propose will be important in this. My colleague Robin Smith and I hope to participate in the workshops. In addition, we will be undertaking work ourselves on extending the Glimmer-CISM interface to serve the needs of projects that have already started at the Met Office and the University of Reading, and we will make our considerations in the design and our subsequent experience of these developments available as input to your project. I estimate that our work on relevant developments and our attendance workshops in your projects will amount to three months of staff time, having a full economic cost of about £13,000.

Yours sincerely

*Jonathan Gregory*

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Professor in the Department of Meteorology

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