

## ***Interactive comment on “RIMBAY – a multi-physics 3-D ice-dynamics model for comprehensive applications: model-description and examples” by M. Thoma et al.***

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This manuscript is well written and describes clearly all the aspects of RIMBAY and I particularly appreciate the clear distinction the authors make between mathematical model, numerical model, implementation and experiments, as the word “model” is usually used for all those aspects, which can be confusing. There are however two points that, I think, could be easily addressed. First, there are very few references to ice flow approximation development papers (SIA: Hutter 1983, SSA Morland 1987, MacAyeal 1989). This is all the more surprising that these fairly well known equations are here described in ample details. Second, there are only few references to other ice flow

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models such as Elmer/Ice, CISM, PISM, ISSM, Sicopolis, . . . Over the past 10 years, several ice sheet modeling codes have been developed and I think it would be relevant to highlight the similarities and differences between RIMBAY and these other efforts.

I don't think there is a length limitation to this paper, so I think a more complete bibliography and comparison to other existing software would be useful for the readers.

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