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Interactive Comment

Interactive comment on "Scaling aspects of the sea-ice-drift dynamics and pack fracture" by A. Chmel et al.

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I find the article interesting since these aspects are not normally taken much care of in sea ice modelling. My intuition is that the ice cover during the freezing season builds up to be practically rigid over large areas. However, this is not a stable state for some reason. This gives a system somehow similar to a sandpile building up below a stream of sand on a table: http://en.wikipedia.org/wiki/Bak-Tang-Wiesenfeld_sandpile

I would assume the following can bring this work further:

- Try to make simplified simplified models with forcasting power (including at least atmospheric parameters: radiation, clouds, transport of heat and humidity, precipitation).
- Monitoring of the ice field throughout the whole season and try to explain "phase

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shifts" in the behaviour of ice field over long time (year around). I guess one in this case can sort out interesting critical factors in the behaviour of the ice field.

I guess such work needs organisation and resources.

Interactive comment on Ocean Sci. Discuss., 4, 107, 2007.

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