**The Cryosphere
Discussions**

Interactive comment on "Transition in the fractal geometry of Arctic melt ponds" by C. Hohenegger et al.

D. MacAyeal (Referee)

drm7@uchicago.edu

General comments:

1. Is it possible that the scale at which the separation between 2-d and 1-d ponds is determined by the elastic flexural rigidity (and attendant length scale)?

2. In an evolving "pondscape" does water tend to move from 2-d ponds (the small ones) to the 1-d ponds (the big ones)?

Specific comments:

1. How is the perimeter of a melt pond dterermined? Is it done by an algorithm or by hand? Also, what defines the distance between adjoining pairs of pixels, is it the

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distance between their centers, or is the perimeter the sum of pixel edges that enclose the interior. . .?

2. In the discussion, it would be useful to define "homoginization scheme" as many glaciologists are unlikely to have encountered this term before. . .