

***Interactive comment on “A decade of supraglacial
lake volume estimates across a land-terminating
margin of the Greenland Ice Sheet” by
A. A. W. Fitzpatrick et al.***

D. MacAyeal

drm7@midway.uchicago.edu

Received and published: 20 May 2013

Nice paper! Alison Banwell and I read it today and were quite interested. It will be interesting to figure out what is at the root of the apparent simultaneous triggering of lake drainage events...

Two questions:

1. Does your method for deriving depth from satellite imagery (the reflectance method) need to evaluate the "bare ice" reflectance at the edges of lakes, and if so, is this done on a lake-by-lake basis? ... or do you have one value for the reflectance of bare ice for the entire region?

C601

2. For getting the bathymetry of the second lake using the depth-sounder (the Garmin) and the inflatable raft: did you do profiling across the lake using an outboard motor, etc.? or did you simply row the boat back and forth... just curious to know...

Interactive comment on The Cryosphere Discuss., 7, 1383, 2013.