

Interactive comment on “Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 °C global warming is highly dangerous” by J. Hansen et al.

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Response to SC C6113: ‘Response to Peter Thorne’s Comments’, Dale Berner, 21 Aug 2015

We thank Dale Berner for his appreciation of the way science advances. There is an important role for large scale modeling with fine resolution, but it is hardly the be-all to end-all that government program managers try to make it out to be. The range of results from these models can be no better than the assumptions that go into them. It

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is useful sometimes to question basic assumptions.

We have been pointing out for several years that the ice sheet models do not yield the rapid changes that are evident in paleo data. Also the ice sheet models, at least most of them, have a huge hysteresis effect, which the real world does not confirm. Pointing out these deficiencies does not seem to have much effect, but experiments such as we have done can get more attention (if we try) and perhaps have an impact. These experiments, with a 4-by-5 degree model could be done on a workstation, although they still require support for a few scientists.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 20059, 2015.