

Interactive comment on “Candidates for multiple impact craters: popigai and chicxulub as seen by EGM08, a global 5' × 5' gravitational model” by J. Klokočník et al.

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I know absolutely nothing about the geophysics of impact craters, but I am knowledgeable about satellite gravity data. I have reviewed the manuscript and find no errors in their choice of gravity models or methods to compute free-air gravity and the derivatives from the models. The two models they use (EGM08 and DNSC08) are both state of the art models - there really is nothing currently available that is better. The authors are all first-rate geodesists and definitely know how to make the computations. There is some connection between EGM08 and DNSC08, since EGM08 used some of the DNSC08 data, but the authors note this and use DNSC08 for more detail, which

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is appropriate. I find that the paper is well-written and easy to follow. Although I am not an expert on impact craters, I do find that the authors make a compelling argument that they have found signs of double impact craters. While they acknowledge this is speculative, I think it is worth publishing in order to motivate further studies using other methods. I did not find any problems with the writing, figures, or analysis to warrant a revision, so I recommend publishing as is.

Interactive comment on Solid Earth Discuss., 2, 69, 2010.

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