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Interactive comment on “Open-source modular solutions for flexural isostasy: gFlex v1.0” by A. D. Wickert

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The author presents a new open source model (gFlex) that can produce analytical and finite difference solutions for lithospheric flexure in 1D and 2D. The software is well described and for sure it will be used by the scientific community. gFlex has been applied to simulate the effects of spatially variable lithospheric thickness on a modelled Iceland ice cup. My only recommendation is to display the results of models having different boundary conditions, since gFlex supports a number of them. In this way it will be fully clear the potentiality of the software.

I appreciate the reviewer’s enthusiasm about this work. To the question about different boundary conditions, I would point the reviewer to Figure 5, which has now been up-

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dated to include all available boundary conditions, and now has a hatch pattern instead of a shading beneath loads to better see the local effects on isostasy.

GMDD

Interactive comment on Geosci. Model Dev. Discuss., 8, 4245, 2015.

8, C3488–C3489, 2015

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