

Interactive comment on “Analytical solutions for mantle flow in cylindrical and spherical shells” by Stephan C. Kramer et al.

Cedric THIEULOT

c.thieulot@uu.nl

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Dear authors, In 2017 I carried out a similar exercise (Thieulot, Analytical solution for viscous incompressible Stokes flow in a spherical shell, *Solid Earth*, 8, 1181–1191, 2017 <https://doi.org/10.5194/se-8-1181-2017>). Although it looks like your (family of) solutions is more generic than mine, my solution allowed for a radial dependence of the viscosity. I was then wondering whether my solutions (in the case where viscosity is constant) are a subset of yours? Best regards, and congratulations for this impressive work and for sharing the code to compute the solution. Cedric.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-194>, 2020.