Geoscientific
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Discussions

[GMDD]

Interactive
comment

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

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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.