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Dear Editor Patrice Rey,

On behalf of all co-authors, I am glad to have our paper entitled "**Fast postglacial uplift in the Southern Patagonian Andes due to the asthenospheric window and glacial-interglacial cycles**" accepted for publication in your journal.

Regarding your last requested correction, we acknowledge that the group of equations (4) was not entirely correct, once in the 2D version of the code we used for this study, the ductile deformation is calculated as a function of the shear viscosity, η, that is not subdivided in the diffusion and dislocation creep equations, but expressed as:

$$\eta = \frac{1}{2A_d\sigma_{II}'^{\,n-1}} exp\left(\frac{E_a + PV_a}{RT}\right)$$

where σ_{II}' is the second invariant of the deviatoric stress tensor, n is the stress exponent, A_d is the pre-exponential factor, E_a is the activation energy, V_a is the activation volume, and R is the gas constant, T is temperature and P is pressure. It changes also the equation (5) for the viscous deviatoric strain rate tensor, $\dot{\varepsilon}'_{ij\,(viscous)}$, and we remark that the term ($\delta_{ij}\eta_{bulk}\dot{\varepsilon}_{kk}$) is subtracted from ($\frac{\sigma'_{ij}}{2\eta}$) in the way the expression is written right now. Details about these equations can be found in Gerya (2019). The final uploaded PDF has these equations corrected and explained accordingly.

I also remark my affiliation change, but having that this manuscript was designed and developed during my time in the University of Milano-Bicocca, I prefer to leave it as my first affiliation.

We finally thank the editors and the reviewers for your considerate work and hope to share this manuscript soon with the Geosciences community.

Yours Sincerely,

Veleda A. P. Muller.

Reference:

Gerya, T. (Ed.): Introduction to numerical geodynamic modelling. Cambridge University Press, ISBN 978-1-107-14314-2, 2019