

Supplementary Information to “Thermo-mechanical numerical modelling of the South American subduction zone: a multi-parametric investigation”

Vincent Strak¹ and Wouter P. Schellart¹

¹Department of Earth Sciences, Vrije Universiteit Amsterdam, Amsterdam, 1081HV, Netherlands

Correspondence to: Vincent Strak (v.strak@vu.nl)

In this Supplementary Information we present a figure showing the evolution of surficial velocities at a higher Rayleigh number of $\sim 6 \times 10^7$ (Fig. S1) and a figure testing the spatial resolution of the models using the subducting plate and trench retreat velocities (Fig. S2).

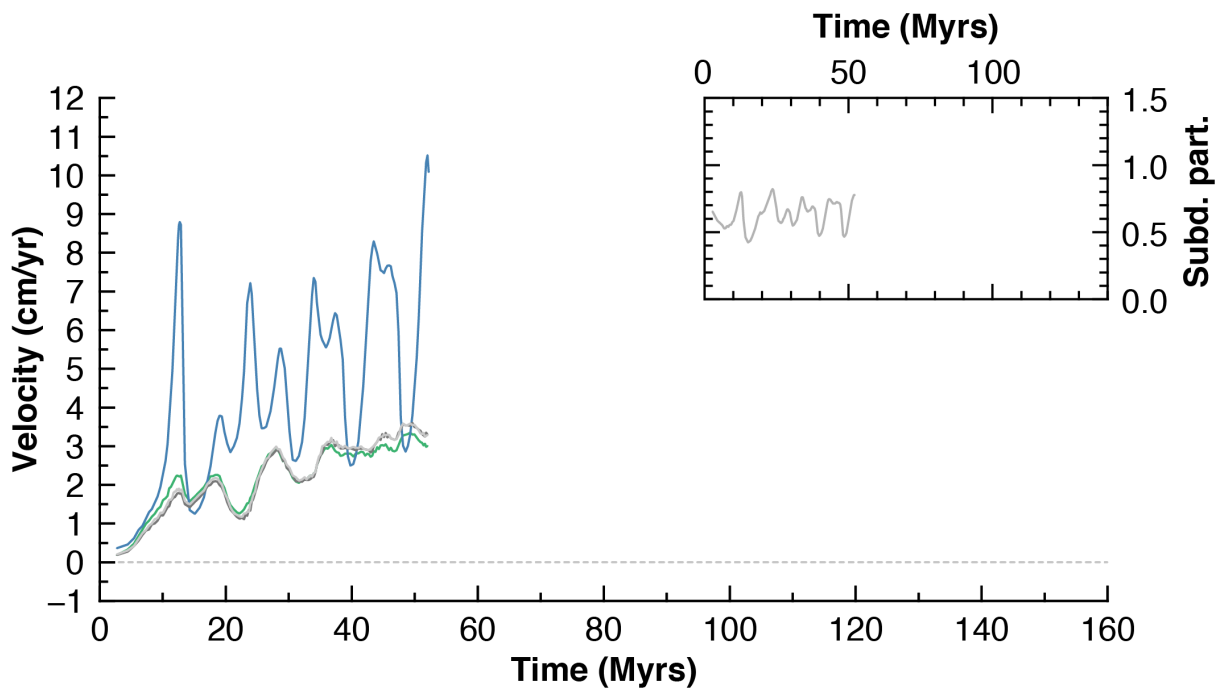


Figure S1: Surficial kinematics for model investigating the effect of increasing the Rayleigh number ($\sim 6 \times 10^7$ instead of 4.3×10^7 in the reference model). For more detail the reader is referred to the caption of Fig. 7 and to section 4.5.

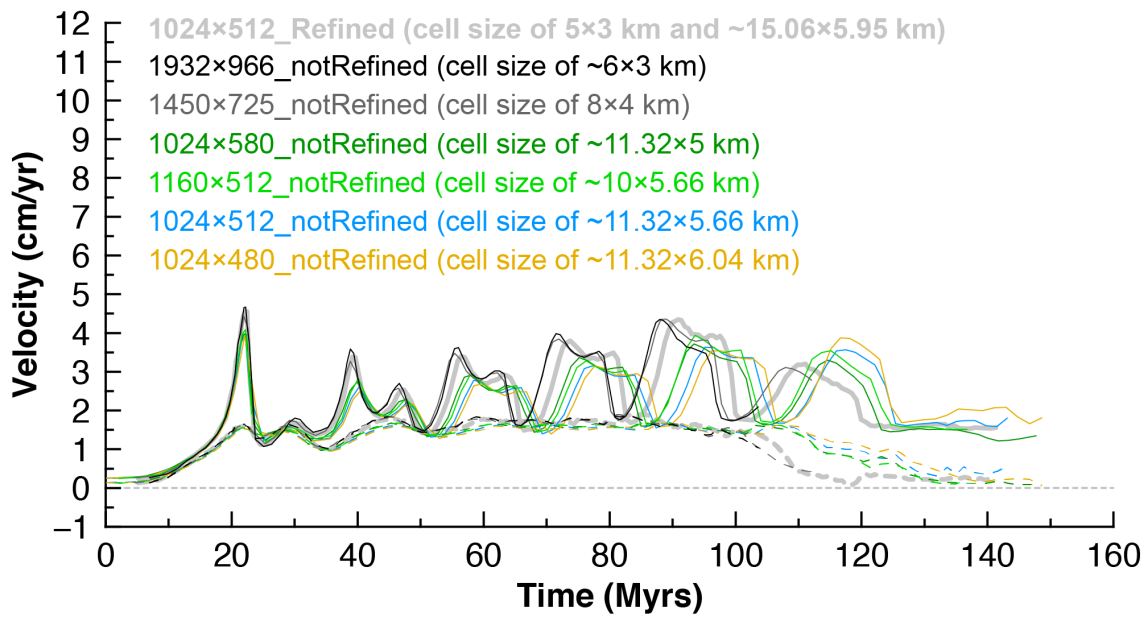


Figure S2: Surficial kinematics for models testing spatial resolution. The continuous lines indicate V_{SP} and the dashed lines V_T . For more detail the reader is referred to the caption of Fig. 7 and to section 4.6.