

Table 1: Parameters for forward conductivity models. Conductivities are calculated from viscosity values using Eq. 5. See text for details.

<b>Model</b>	Melt storage conditions	Melt viscosity (Pa.s)	Corresponding cond. (S/m)	Vol. of reservoir (km <sup>3</sup> )
<b>Homogeneous reservoir</b>	Rhyolite at 900°C, 3wt% H <sub>2</sub> O	4.6.10 <sup>5</sup>	2.2	10 or 20
	Anhydrous basalt at 1200°C	7.6.10 <sup>2</sup>	1.5	10 or 20
<b>Layered reservoir</b>	Rhyolite at 1000°C*, 2wt% H <sub>2</sub> O (top)	3.2.10 <sup>4</sup>	3.6	20
	Basalt at 1000°C*, 2wt% H <sub>2</sub> O (bottom)	1.9.10 <sup>4</sup>	0.60	
<b>Magma mixing</b>	Hybrid melt at 1000°C*, 2wt% H <sub>2</sub> O	2.5.10 <sup>4</sup>	1.0	20
<b>Magma mingling</b>	Rhyolite and basalt both at 1000°C, 2wt% H <sub>2</sub> O (HS upper bound)	-	1.9	20

\* Considered temperature of homogeneization