

Table 2

Variables

Variable	Description	
ΔP	Pressure Change, Pa/sec	$K \cdot \Delta V / V_0$
E_b	Brittle Youngs Modulus, Pa	
E_{td}	Temperature dependent Youngs Modulus, Pa	$E_b \cdot (T - T_m) / (T_0 - T_{grad} \cdot z - T_m)$
G_{0td}	Initial Shear Modulus, Pa	$E_{td} / (2 \cdot (1 + \nu))$
K_{td}	Temperature dependent Bulk Modulus, Pa	$E_{td} / (3 \cdot (1 - 2 \cdot \nu))$
$MagmaLd_{dt}$	Initial pressure of magma chamber, Pa	$\Delta P \cdot t + \rho_r \cdot g \cdot z - \rho_i \cdot g \cdot i_h$
T	Temperature, K	
T_{GEO}	Geothermal gradient, K	$273.15 - z \cdot T_{grad}$
t	Time, sec	
τ_0	Maxwell Relation Times of rock, sec	$N / (G_0 \cdot \mu_1)$
τ_1		$((3 \cdot K) + G_0) / ((3 \cdot K) + G_0 \cdot \mu_1)) \cdot \tau_0$
τ_{0i}	Maxwell Relation Times of ice, sec	$N_i / (G_i \cdot \mu_1)$
τ_{1i}		$((3 \cdot K_i) + G_i) / ((3 \cdot K_i) + G_i \cdot \mu_1)) \cdot \tau_{0i}$
z	Depth, km	