

Parameter	Symbol	Value
Epicentral distance	$L$	3.5 km
Quality factor	$Q$	25
Shear wave speed in rock	$c_s$	$1878 \text{ m s}^{-1}$
Density of rock	$\rho$	$2000 \text{ kg m}^{-3}$
Thickness of landslide	$H$	30 m
Frictional state evolution distance	$d_c$	$15 \times 10^{-6} \text{ m}$
Frictional direct effect parameter	$a$	0.03
Frictional ageing effect parameter	$b$	0.04
Static coefficient of friction	$\mu_0$	0.7
Initial loading velocity	$v_0$	$0.6 \text{ mm s}^{-1}$
Repeating earthquake patch radius	$R$	30 m
Creep acceleration on the accelerating patch (only on up-gliding patch)	$\dot{v}$	$0.01 (\text{mm s}^{-1}) \text{ min}^{-1}$
Rate of patch size change on the decelerating patch (only on down-gliding patch)	$\dot{R}$	$10 \text{ mm s}^{-1}$