Wet Simulation 4

"Wet" simulation with a fluid production rate $S_0=10^{-10}~s^{-1}$, and a maximal fault permeability $K_{max}=10^{-8}~m^2$. This simulation was performed with an initial stress defined as $\sigma_1=\frac{3}{2}~\sigma_3$, and we have **omitted the poroelastic effects**.

Data in Folder "Wet Simulation 4":

- **Shear_stress**: tangential stress " τ " (Pa) fluctuation along the fault during the seismic cycles.
- Fault_velocity: fault velocity "V_f" (m/s) fluctuation along the fault during the seismic cycles.
- Slip: slip (m) along the fault during the seismic cycles.
- **Fluid_overpressure**: Fluid overpressure "P_e" (Pa) fluctuation along the fault during the seismic cycles.
- Pore_Fluid_Factor: Pore-fluid factor "λ" fluctuation along the fault during the seismic cycles. This variable is defined as the ratio of the fluid pressure to the vertical stress.
- **Time**: Time variable (yrs).
- Fault_depth: Depth of the fault nodes (m).
- Fault_depth_FLUID: Depth of the fault nodes (m) for the fluids data (i.e., Pore_Fluid_Factor and Fluid_overpressure).