Fig. 1

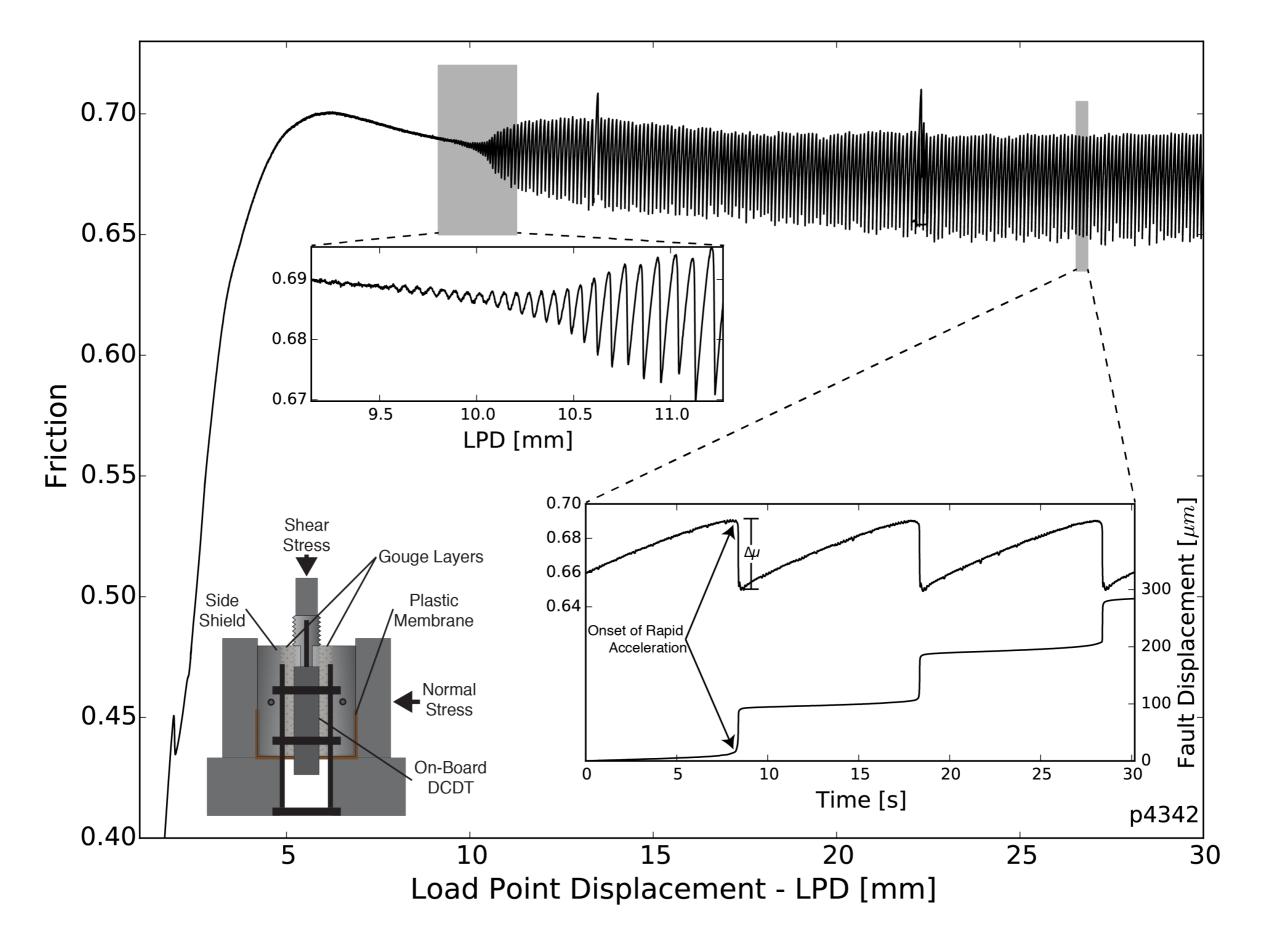


Fig. 2

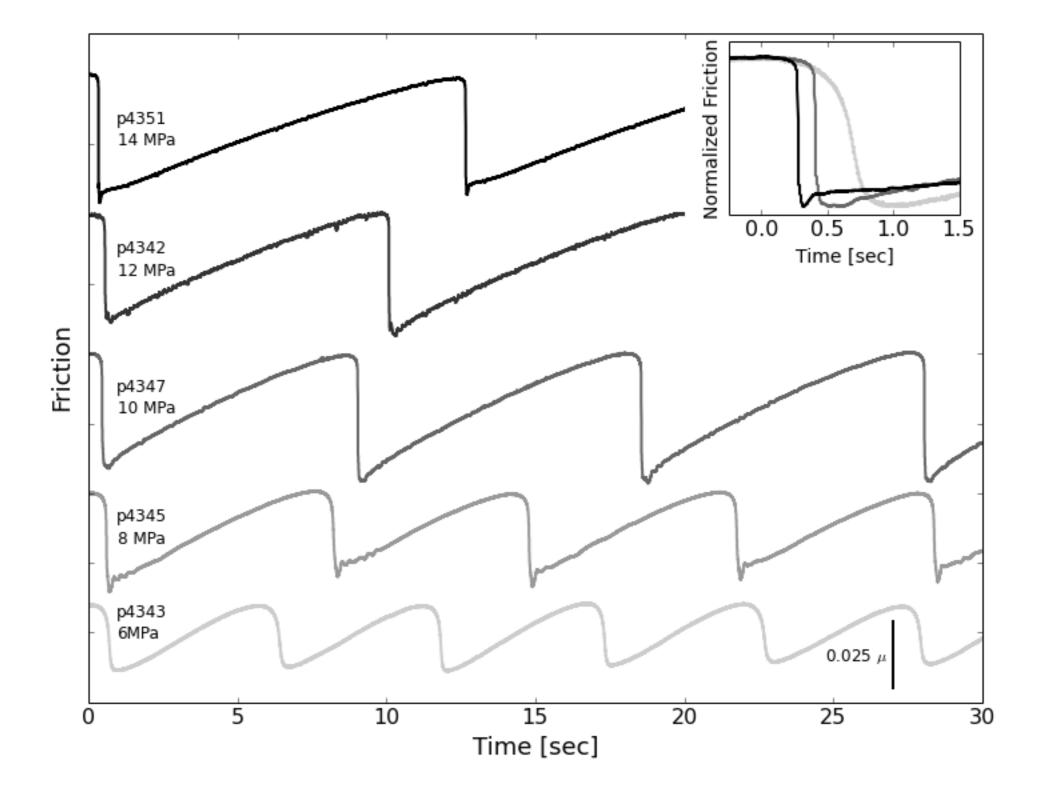
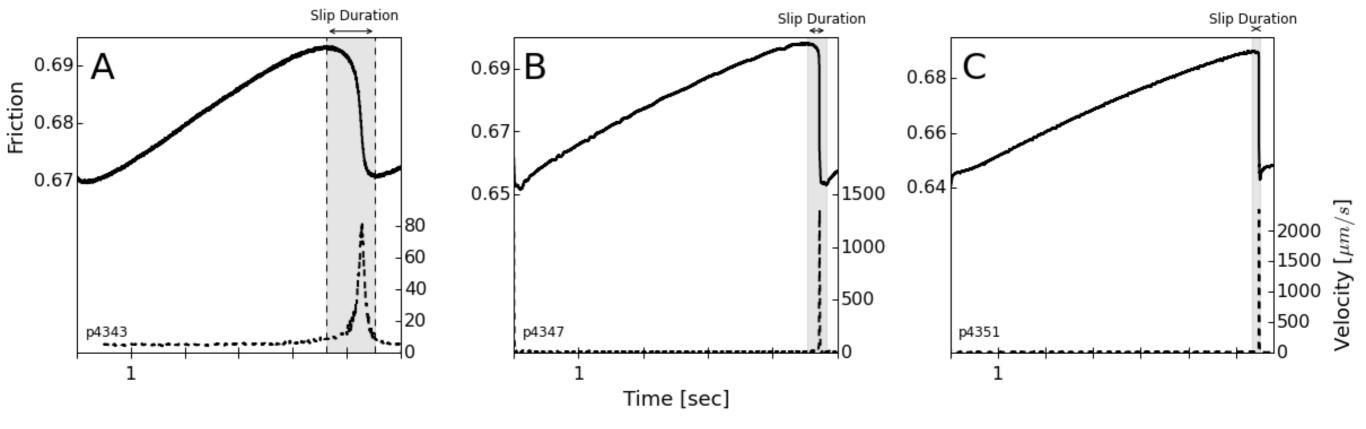


Fig. 3



0.004 Fig. 4 Α p4309 P4381 0.002 Velocity Strengthening P4382 (a-b) 0.000 -0.002 Velocity Weakening -0.004 В 3.5 Stiffness $[1/\mu m]x1000$ 3.0 2.5 2.0 1.5 Stable kc 0.5 Unstable 0.0^L 40 20 30 10 50 C 1.2 1.0 0.8 \mathcal{X} 0.6 0.4 2.5 3.5 -0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 0.2 Peak Slip Velocity [mm/s]0.0 20 25 30 35 45 50 40 Load Point Displacement [mm]

Fig. 5

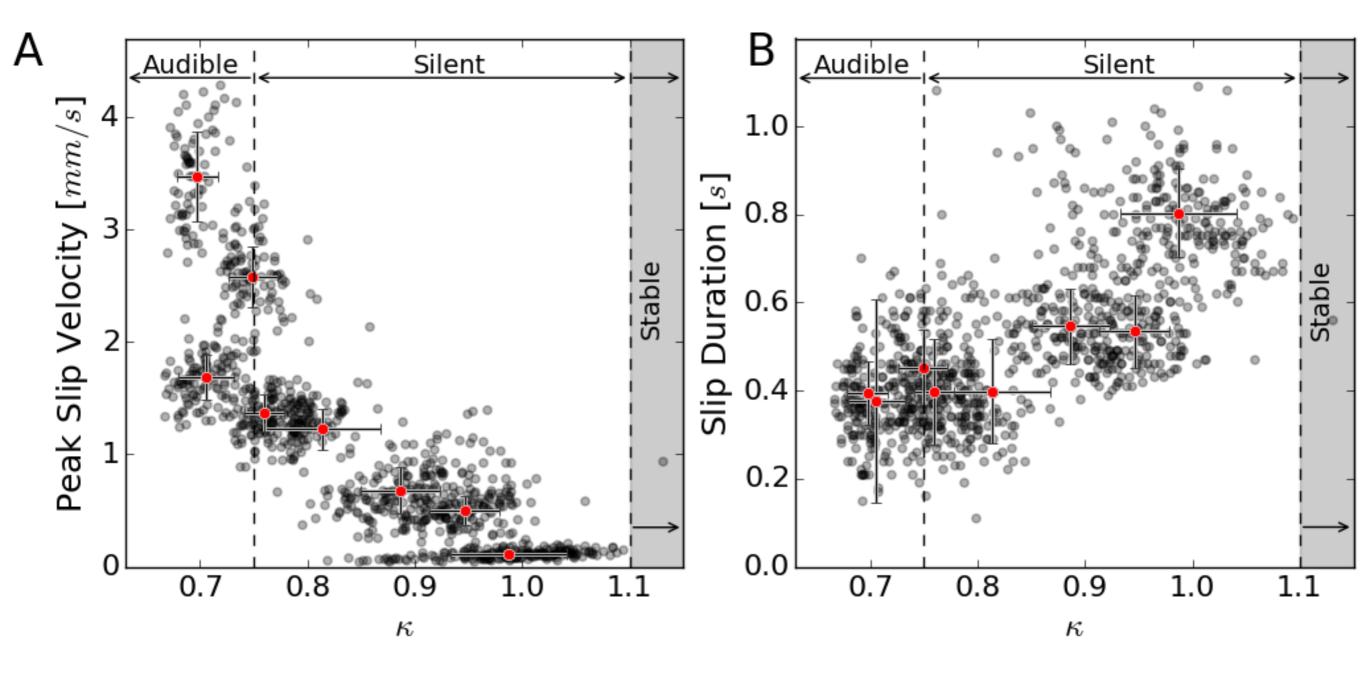


Fig. S1

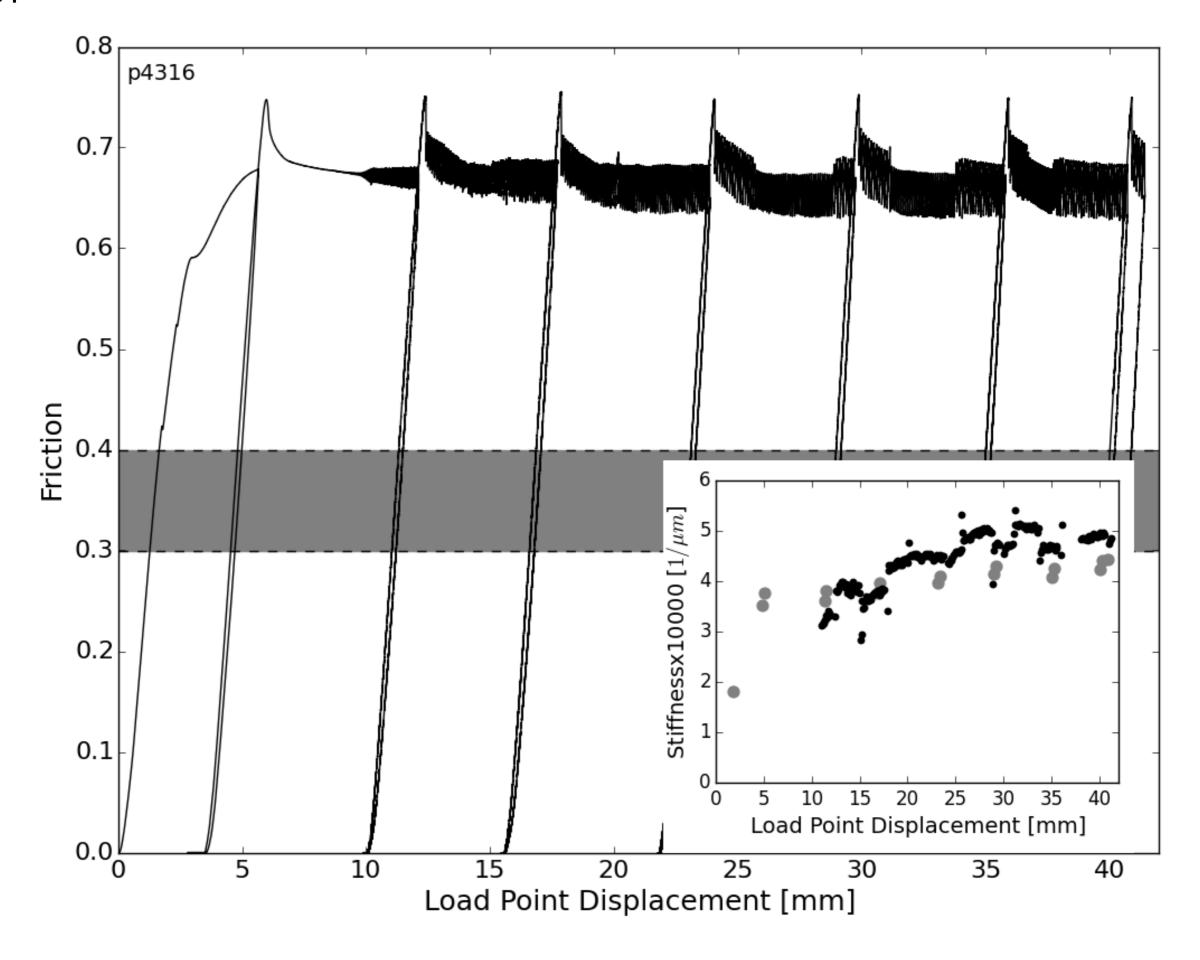


Fig. S2

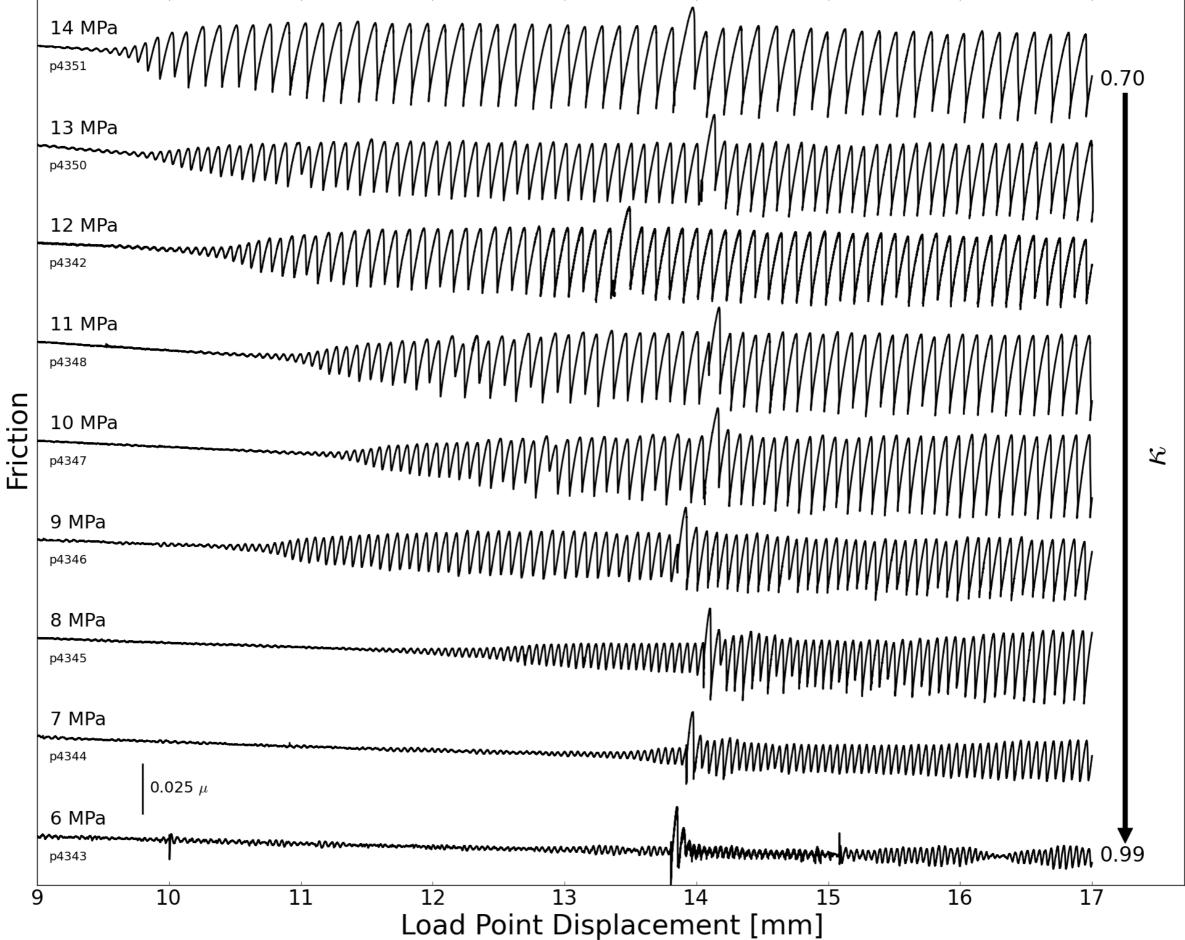


Fig. S3

