

Supplement of Solid Earth, 7, 355–366, 2016
<http://www.solid-earth.net/7/355/2016/>
doi:10.5194/se-7-355-2016-supplement
© Author(s) 2016. CC Attribution 3.0 License.



Solid Earth  Open Access

Supplement of

Strain localization in ultramylonitic marbles by simultaneous activation of dislocation motion and grain boundary sliding (Syros, Greece)

A. Rogowitz et al.

Correspondence to: A. Rogowitz (anna.rogowitz@univie.ac.at)

The copyright of individual parts of the supplement might differ from the CC-BY 3.0 licence.

Table S1 Dislocation Densities and corresponding Stress.

ρ [m^{-2}]	ρ_{max} [m^{-2}]	ρ_{min} [m^{-2}]	σ_{DB} [MPa]	$\sigma_{\text{DB}} \rho_{\text{max}}$ [MPa]	$\sigma_{\text{DB}} \rho_{\text{min}}$ [MPa]
$4.5 \cdot 10^{13}$	$6.4 \cdot 10^{13}$	$2.8 \cdot 10^{13}$	221.20	274.27	164.51
$4.4 \cdot 10^{13}$	$6.3 \cdot 10^{13}$	$2.8 \cdot 10^{13}$	219.34	271.97	163.13
$5.8 \cdot 10^{13}$	$8.2 \cdot 10^{13}$	$3.6 \cdot 10^{13}$	259.78	322.11	193.21
$3.4 \cdot 10^{13}$	$4.9 \cdot 10^{13}$	$2.1 \cdot 10^{13}$	187.12	232.02	139.17
$5.1 \cdot 10^{13}$	$7.2 \cdot 10^{13}$	$3.2 \cdot 10^{13}$	239.28	296.69	177.96
$2.7 \cdot 10^{13}$	$3.8 \cdot 10^{13}$	$1.7 \cdot 10^{13}$	160.25	198.70	119.18
$3.9 \cdot 10^{13}$	$5.5 \cdot 10^{13}$	$2.4 \cdot 10^{13}$	203.13	251.87	151.08
$4.8 \cdot 10^{13}$	$6.8 \cdot 10^{13}$	$3.0 \cdot 10^{13}$	230.35	285.62	171.32
$3.3 \cdot 10^{13}$	$4.6 \cdot 10^{13}$	$2.0 \cdot 10^{13}$	181.94	225.60	135.32
$3.3 \cdot 10^{13}$	$4.7 \cdot 10^{13}$	$2.1 \cdot 10^{13}$	182.99	226.89	136.10
$4.4 \cdot 10^{13}$	$6.2 \cdot 10^{13}$	$2.8 \cdot 10^{13}$	218.77	271.26	162.71
$2.6 \cdot 10^{13}$	$3.7 \cdot 10^{13}$	$1.6 \cdot 10^{13}$	157.98	195.89	117.50
$3.3 \cdot 10^{13}$	$4.6 \cdot 10^{13}$	$2.0 \cdot 10^{13}$	180.90	224.30	134.54
$4.0 \cdot 10^{13}$	$5.7 \cdot 10^{13}$	$2.5 \cdot 10^{13}$	207.18	256.89	154.09
$4.1 \cdot 10^{13}$	$5.8 \cdot 10^{13}$	$2.6 \cdot 10^{13}$	209.53	259.80	155.84
$4.7 \cdot 10^{13}$	$6.7 \cdot 10^{13}$	$3.0 \cdot 10^{13}$	227.77	282.42	169.40
$4.5 \cdot 10^{13}$	$1.2 \cdot 10^{14}$	$2.8 \cdot 10^{13}$	221.31	398.61	164.54
$5.1 \cdot 10^{13}$	$1.3 \cdot 10^{14}$	$3.2 \cdot 10^{13}$	239.49	431.36	178.06
$5.4 \cdot 10^{13}$	$1.4 \cdot 10^{14}$	$3.3 \cdot 10^{13}$	247.48	445.75	184.00
$5.1 \cdot 10^{13}$	$1.3 \cdot 10^{14}$	$3.2 \cdot 10^{13}$	240.30	432.81	178.66
$5.8 \cdot 10^{13}$	$1.5 \cdot 10^{14}$	$3.6 \cdot 10^{13}$	257.63	464.04	191.55
$2.5 \cdot 10^{13}$	$6.5 \cdot 10^{13}$	$1.6 \cdot 10^{13}$	154.32	277.96	114.74
$2.0 \cdot 10^{13}$	$5.2 \cdot 10^{13}$	$1.2 \cdot 10^{13}$	133.77	240.94	99.46
$3.4 \cdot 10^{13}$	$8.8 \cdot 10^{13}$	$2.1 \cdot 10^{13}$	186.13	335.25	138.39
$4.7 \cdot 10^{13}$	$1.2 \cdot 10^{14}$	$2.9 \cdot 10^{13}$	227.55	409.85	169.18
$3.3 \cdot 10^{13}$	$8.6 \cdot 10^{13}$	$2.1 \cdot 10^{13}$	183.65	330.79	136.55
$2.7 \cdot 10^{13}$	$7.0 \cdot 10^{13}$	$1.7 \cdot 10^{13}$	161.03	290.04	119.72
$2.0 \cdot 10^{13}$	$5.1 \cdot 10^{13}$	$1.2 \cdot 10^{13}$	133.00	239.56	98.89
$2.5 \cdot 10^{13}$	$6.5 \cdot 10^{13}$	$1.6 \cdot 10^{13}$	154.62	278.50	114.96
$2.7 \cdot 10^{13}$	$6.9 \cdot 10^{13}$	$1.6 \cdot 10^{13}$	159.75	287.74	118.78
$3.1 \cdot 10^{13}$	$7.9 \cdot 10^{13}$	$1.9 \cdot 10^{13}$	174.62	314.52	129.83
$2.5 \cdot 10^{13}$	$6.5 \cdot 10^{13}$	$1.5 \cdot 10^{13}$	153.72	276.88	114.29