

Figure 1 of Obata and Karato (1995)

DR2008147

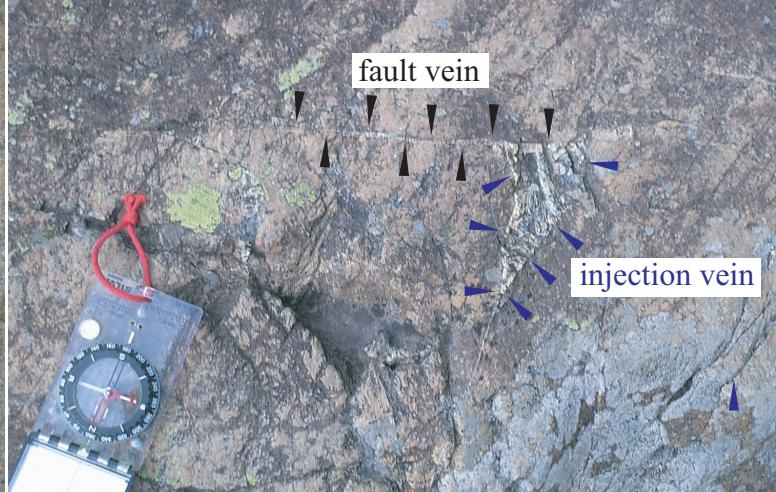
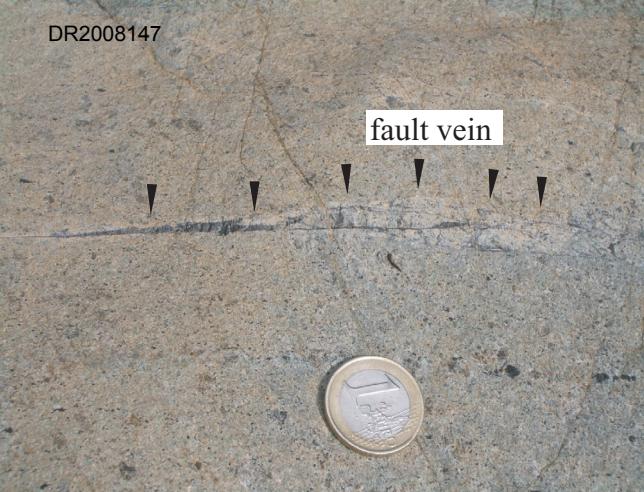


Figure DR2

DR2008147

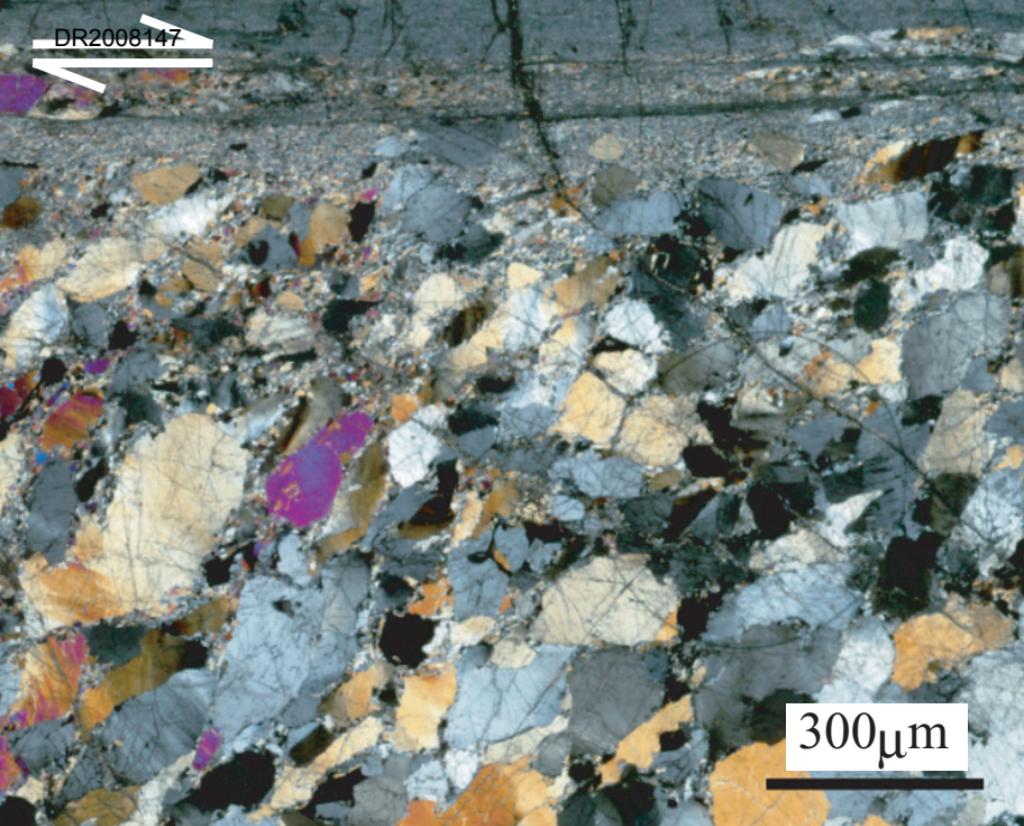


Fig DR3. The structure of host mylonite (long axes of porphyroclasts) sub-parallel to the boundary between host rock and mylonitized pseudotachylite.

Between main ultramylonite (i.e. mylonitized pseudotachylite; top) fault vein and host rock several slices of host mylonite exist (near the top).

Shear sense is indicated by arrows in top left.

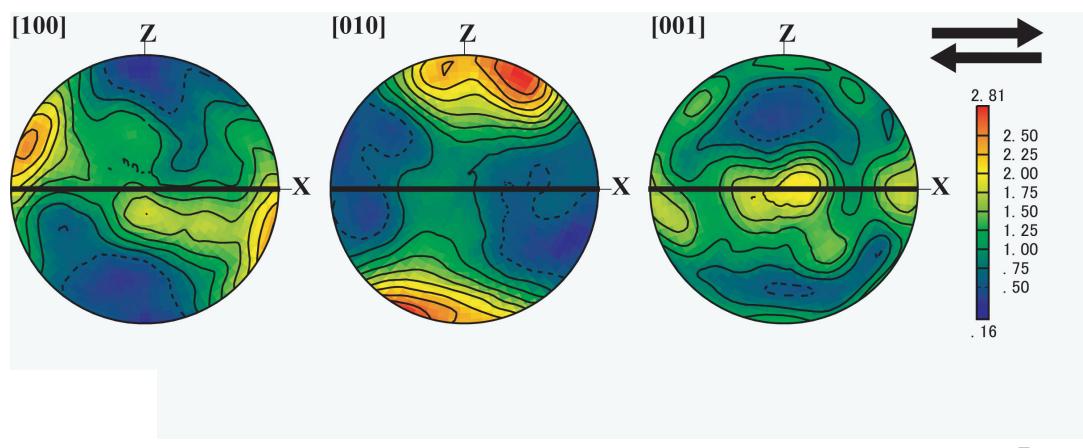


Figure DR4

Table DR1_17_Microprobe analyses of minerals in the wall rock mylonite (sample 081003)

Mineral texture	Ol N	Opx P	Opx N	Cpx P	Cpx N	Sp P	Amp N
n	2		4		4		2
SiO ₂	40.97	56.60	56.92	51.94	53.85	0.52	42.78
TiO ₂	-	0.09	0.07	0.28	0.21	-	2.72
Al ₂ O ₃	-	2.92	1.75	5.46	2.26	56.65	13.53
Cr ₂ O ₃	0.05	0.17	0.10	0.80	0.21	10.52	0.60
FeO*	9.53	6.77	6.98	2.54	2.34	12.35	3.66
MnO	0.16	0.17	0.17	0.06	0.11	-	0.00
MgO	49.45	34.01	34.21	14.87	16.69	19.40	17.21
CaO	-	0.31	0.27	22.41	23.48	-	12.30
NiO	0.54	-	-	-	-	-	-
Na ₂ O	-	0.00	0.00	0.97	0.52	-	3.31
K ₂ O	-	-	-	-	-	-	0.05
total	100.69	101.04	100.46	99.33	99.59	99.44	96.14
No. of oxygen	4	6	6	6	6	4	23
Si	0.998	1.937	1.960	1.904	1.964	0.014	6.175
Ti	0.000	0.002	0.002	0.008	0.006	0.000	0.295
Al	0.000	0.118	0.071	0.236	0.097	1.747	2.300
Cr	0.001	0.000	0.000	0.023	0.006	0.218	0.068
Fe	0.194	0.194	0.201	0.078	0.071	0.270	0.441
Mn	0.003	0.005	0.005	0.002	0.002	0.000	0.000
Mg	1.794	1.734	1.755	0.812	0.906	0.756	3.699
Ca	0.000	0.011	0.010	0.880	0.917	0.000	1.901
Ni	0.010	0.000	0.000	0.000	0.000	0.000	0.000
Na	0.000	0.000	0.000	0.034	0.018	0.000	0.926
K	0.000	0.000	0.000	0.000	0.000	0.000	0.009
total	3.001	4.001	4.003	3.976	3.988	3.004	15.814

Ol, olivine; Opx, orthopyroxene; Cpx, clinopyroxene; Sp, spinel; Amp, amphibole.

P: core of porphyroblasts. Representative analyses.

N: neoblasts (small new crystals); n: number of analyses used to obtain averages.

-, not determined