

# Back-thrusting in Lesser Himalaya: Evidences from magnetic fabric studies in parts of Almora crystalline zone, Kumaun Lesser Himalaya

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## Supplementary data

Table S1. AMS data, representing mean of values from cores ( $N$ ) collected from each site (sample no.). Where  $k_1d$ ,  $k_3d$  are the declination and  $k_1i$ , and  $k_3i$  are the inclination of maximum ( $k_1$ ), and minimum ( $k_3$ ) susceptibility axes of AMS ellipsoid. Important AMS parameters, such as the mean susceptibility ( $k_m$ ), corrected degree of magnetic anisotropy ( $P'$ ) and mean of shape factor of AMS ellipsoid ( $T_{mean}$ ), are calculated.

Sample	N	$k_m$ ( $10^{-3}$ SI)	$P'$	$T_{mean}$	$k_1d$	$k_1i$	$k_3d$	$k_3i$
BP5	5	0.262	1.185	0.600	353	17	177	73
BP6	7	0.292	1.104	0.245	288	17	180	47
BP7	7	0.247	1.117	0.540	309	53	191	20
BP11	6	0.207	1.393	0.597	059	63	202	22
BR1	7	0.096	1.137	0.495	007	51	219	35
BR2	6	0.221	1.107	0.325	336	54	162	36
BR4	8	0.218	1.092	0.117	012	52	177	37
BR5	6	0.008	1.298	-0.346	061	67	295	14
BR6	5	0.062	1.157	0.671	025	30	260	45
BR7	5	0.331	1.114	0.380	356	52	195	37
BR8	5	0.358	1.190	0.320	353	58	177	32
DK1	5	0.198	1.233	0.841	187	31	013	59
DK2	5	0.439	1.308	0.318	188	54	018	35
DK4	7	0.212	1.221	0.645	209	35	019	55
DK5	5	0.169	1.143	0.869	248	21	025	62
DK7	6	0.166	1.073	0.769	065	02	338	63
DK9	6	0.429	1.053	0.356	210	53	049	35

Supplementary data

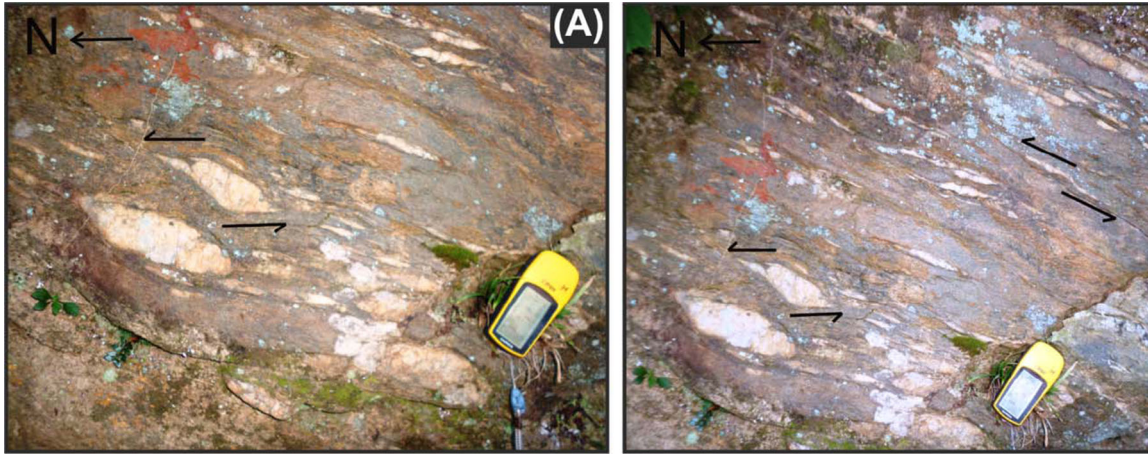


Figure S1. Sigma structures in mylonites near NAT demonstrating a top-to-north shear sense. Dip:  $28^{\circ}/195^{\circ}.1$  km after Dhaulchhina market on Dhaulchhina to Seraghat road (N  $29^{\circ}40.614'$ ; E  $079^{\circ}47.576'$ ).

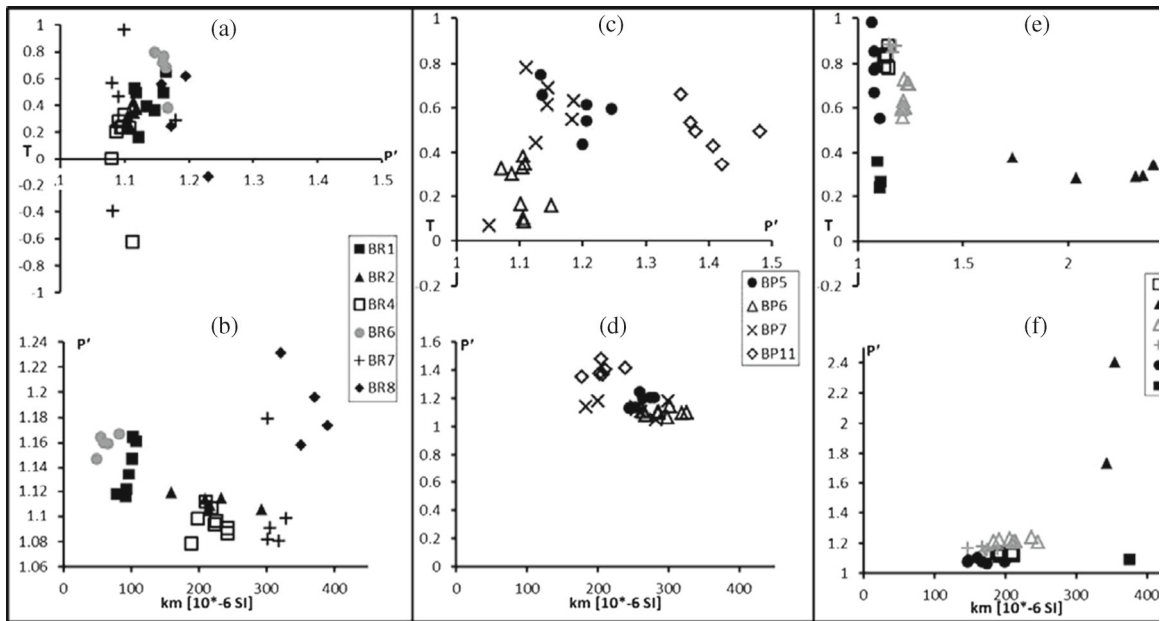


Figure S2. (a, c and e) Jelink's graphs plotted between shape factor (T) and corrected degree of anisotropy (P'). (b, d and e) P' vs. mean bulk susceptibility ( $k_m$ ) graphs.