Figures illustrating structural signatures of the Buteel and Zagan MCCs

Buteel MCC

Fig. 1S. Diagram summarizing most of the features of the footwall orthogneisses in the southeast of the Buteel MCC.

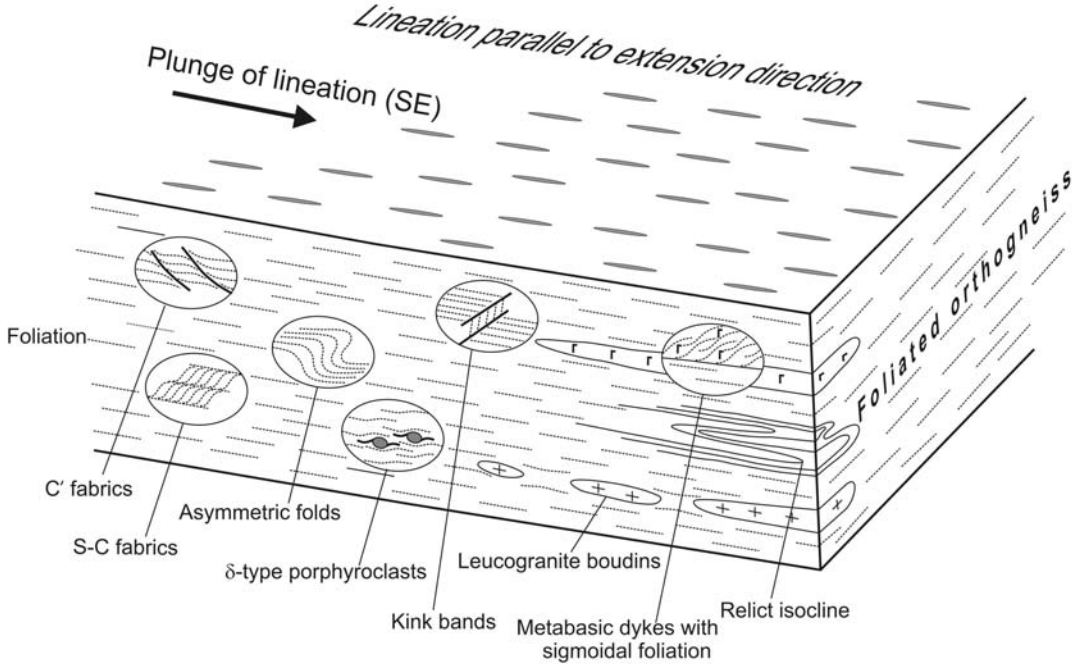


Fig. 2S. (**a**) Synoptic, lower hemisphere, equal angle projection stereograms of foliations (*n = 100*) and lineations (*n = 58*) of Mongolian part of the Buteel MCC; (**b**) foliations (*n = 275*) of the Burgutoy complex (Russian part of the Buteel MCC, Transbaikalia); (**c**) lineations (*n = 190*) of the Burgutoy complex.

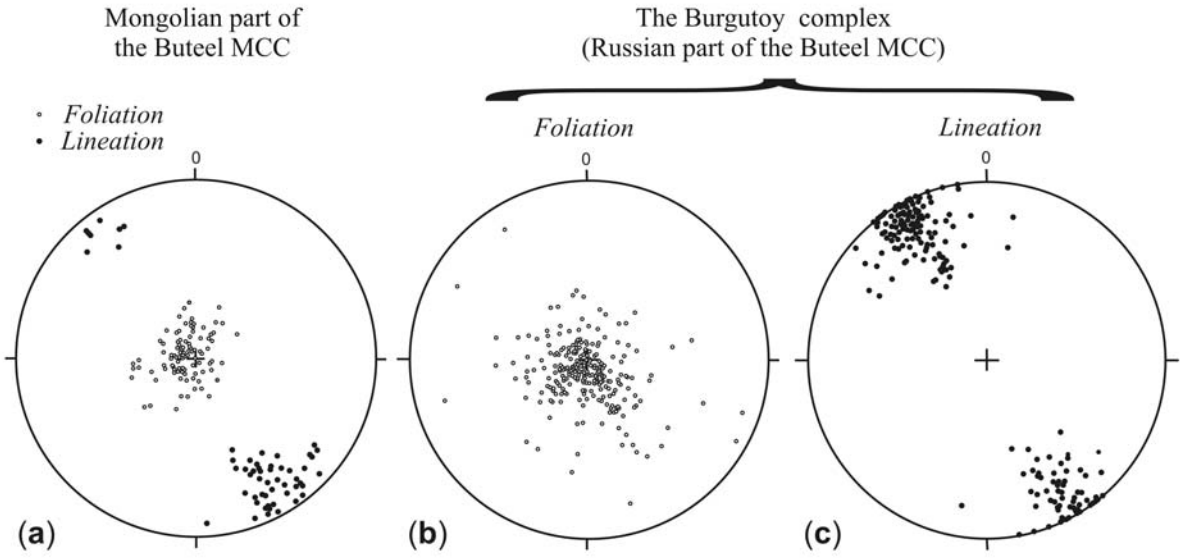


Fig. 3S. Photographs showing shear sense fabrics (**a-b**) and brittle structures (**c-d**) in the Buteel MCC: (**a**) asymmetric flow fold; (**b**) asymmetric pressure shadows around pebbles in mylonitized polymict conglomerates; (**c**) kink bands; (**d**) listric normal fault.

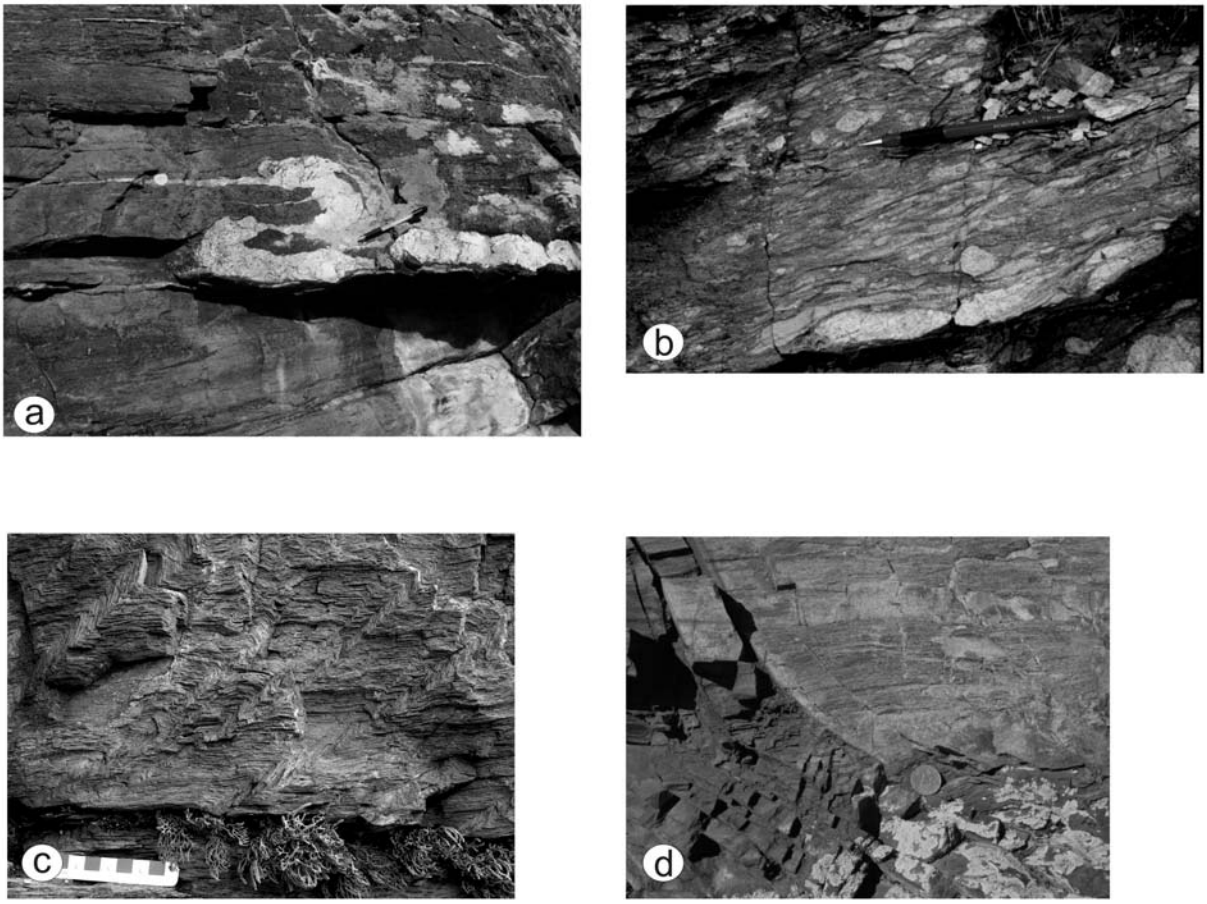
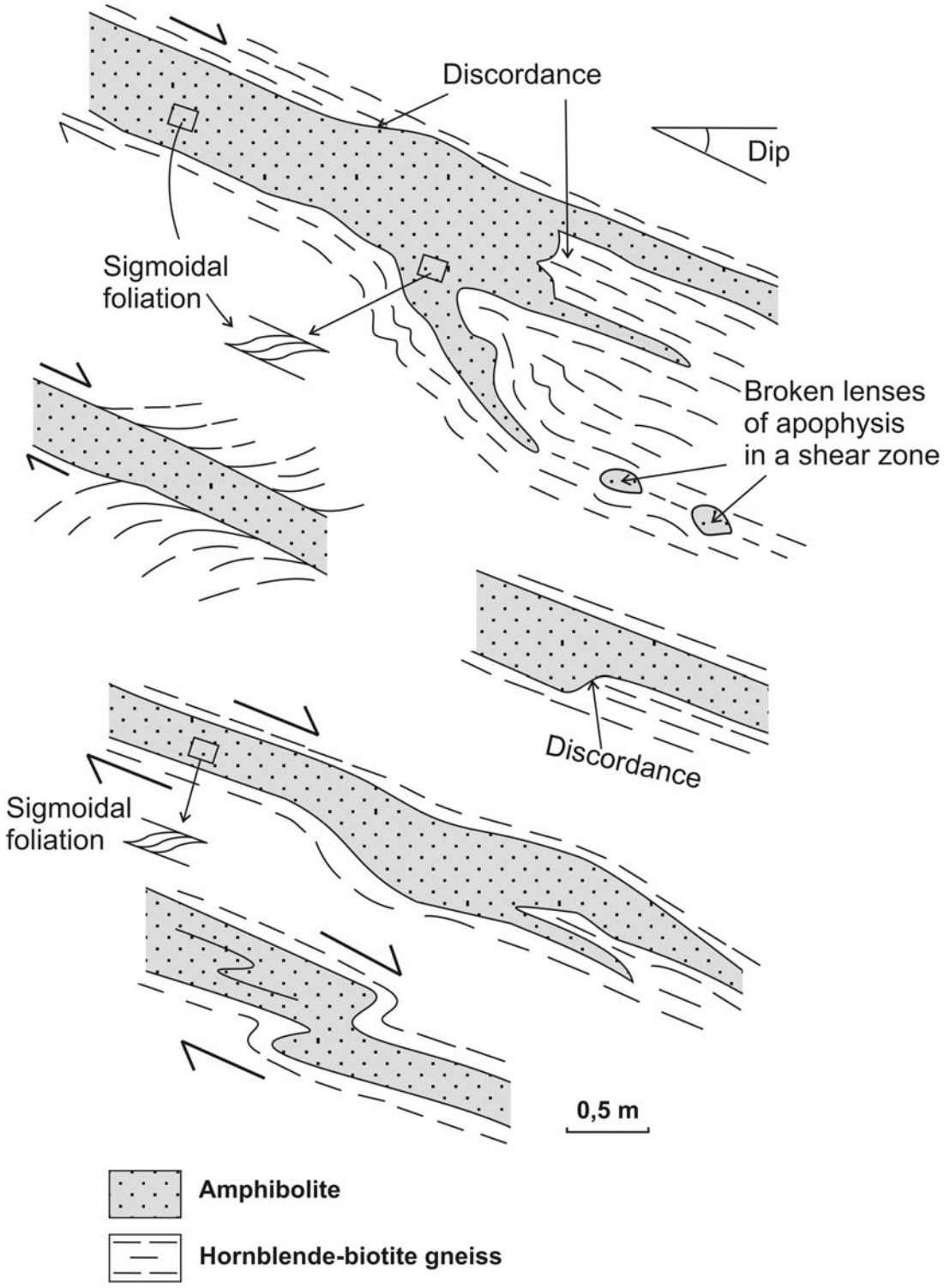


Fig. 4S. Structural features of synkinematic, amphibolite facies, basic dykes intruding gneisses in the footwall of the Buteel MCC



Zagan MCC

Fig. 5S. Synoptic, lower hemisphere, equal angle projection stereograms of (**a**) foliations (*n = 276*); (**b**) lineations (*n = 190*); (**c**) fold hinges (*n = 84*) of the Zagan MCC.

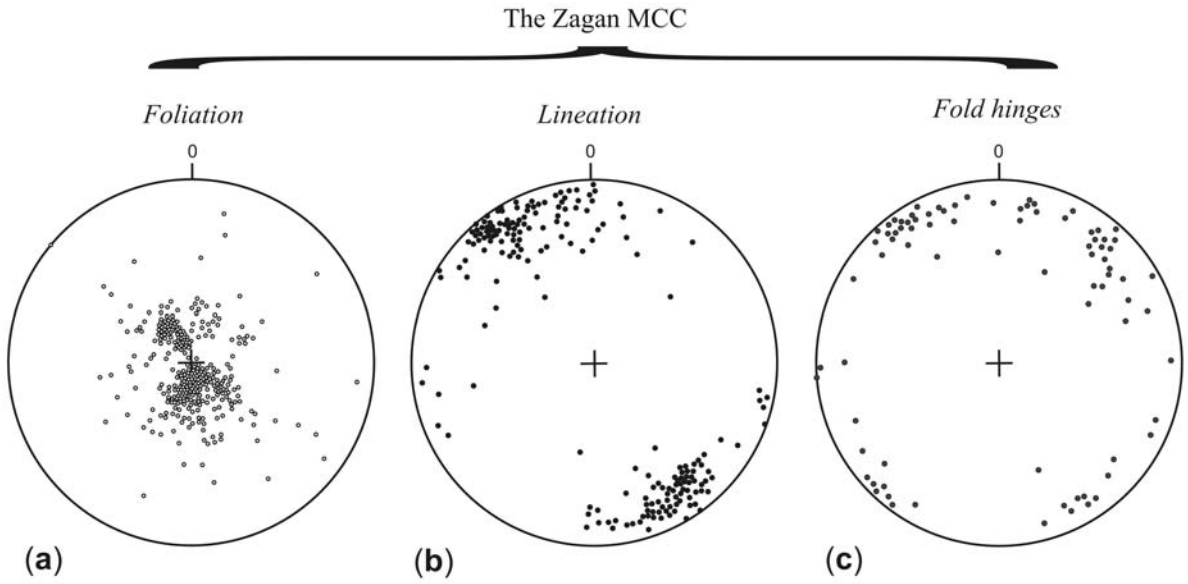
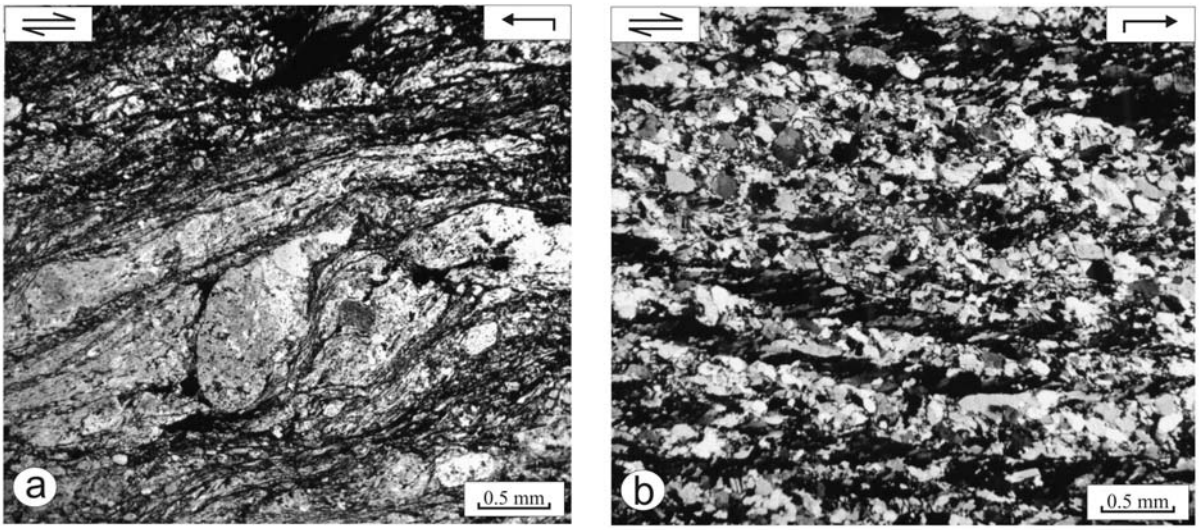


Fig. 6S. Photographs showing shear sense fabrics in mylonites of the Zagan MCC (modified after Sklyarov *et al.* (1997)): (**a**) stretched pebbles in mylonitized conglomerates (NW part of the Zagan complex); (**b**) quartz segregation fabrics (SE part of the Zagan complex).



Reference

Sklyarov, E.V., Mazukabzov, A.M. & Mel'nikov, A.I. 1997. *Metamorphic core complexes of the Cordilleran type*. SPC UIGGM Siberian branch of the RAS, Novosibirsk (in Russian).