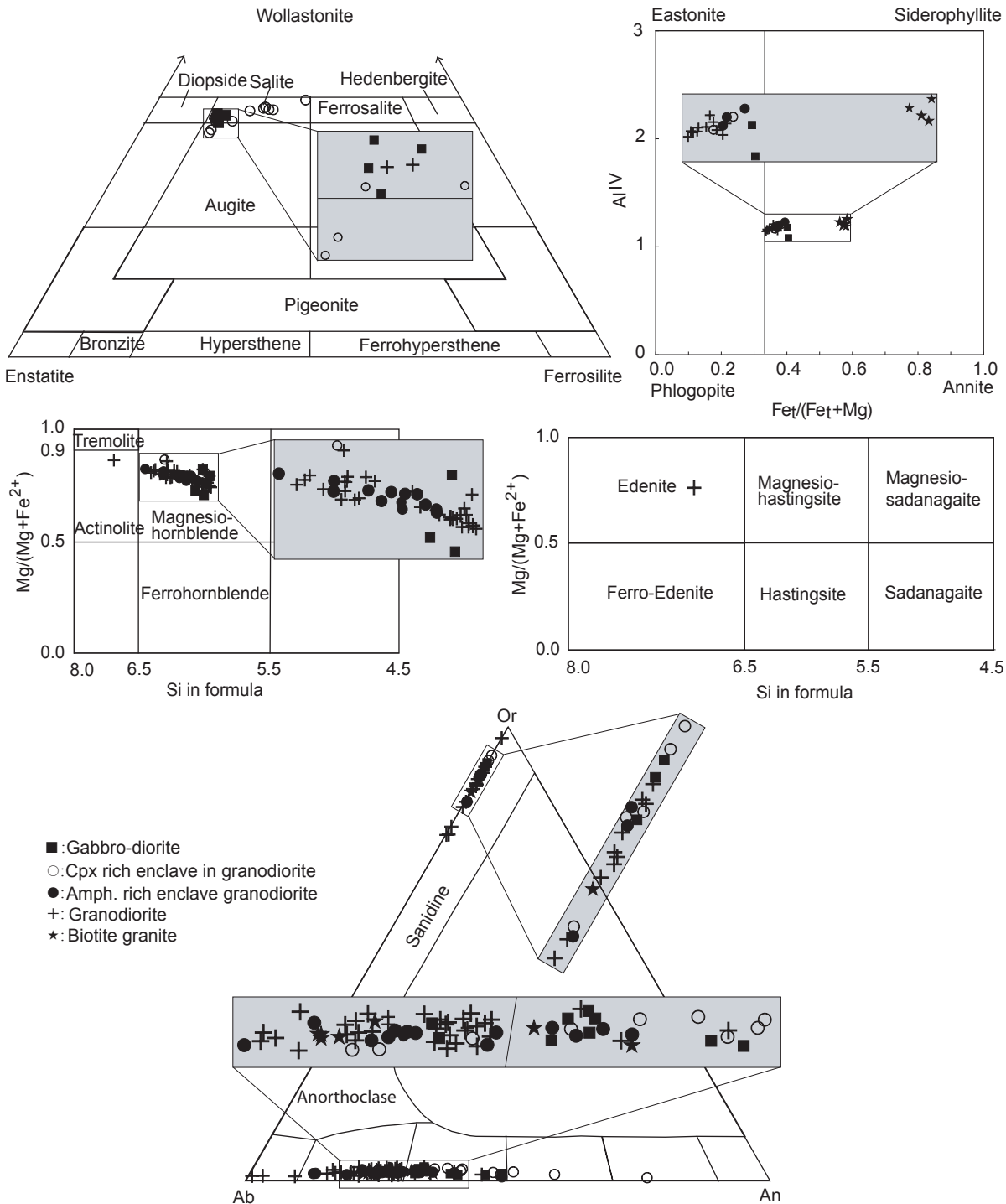
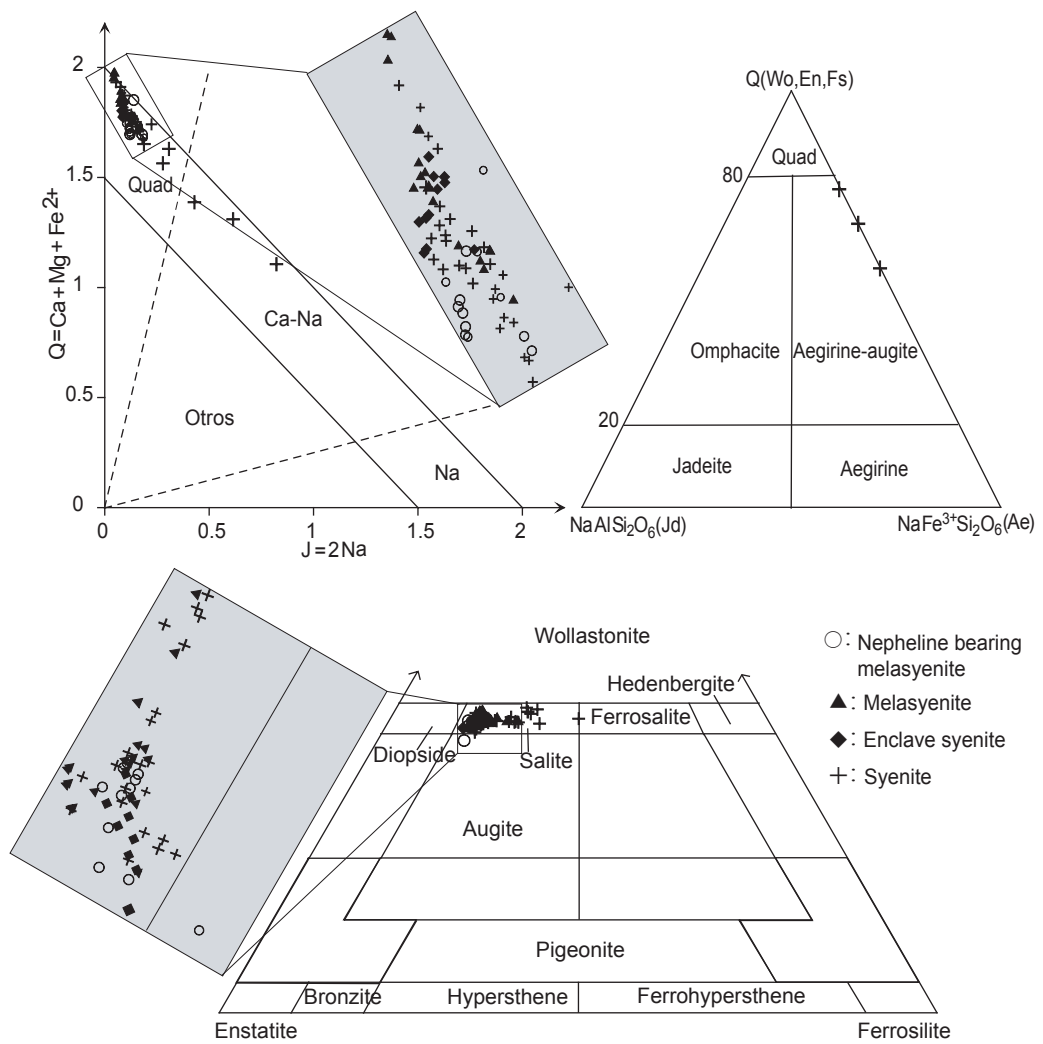


APPENDIX 1 (FIGURES)

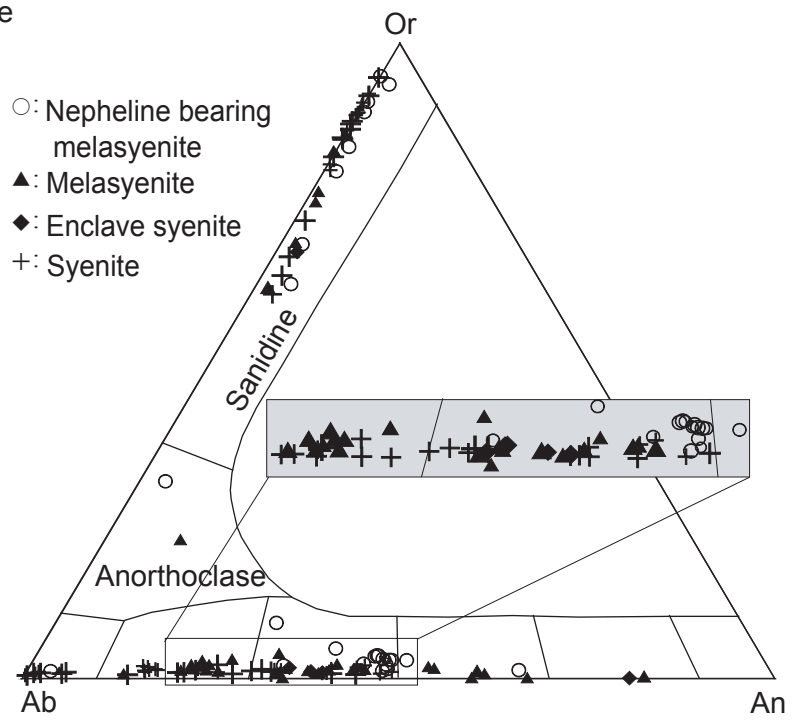
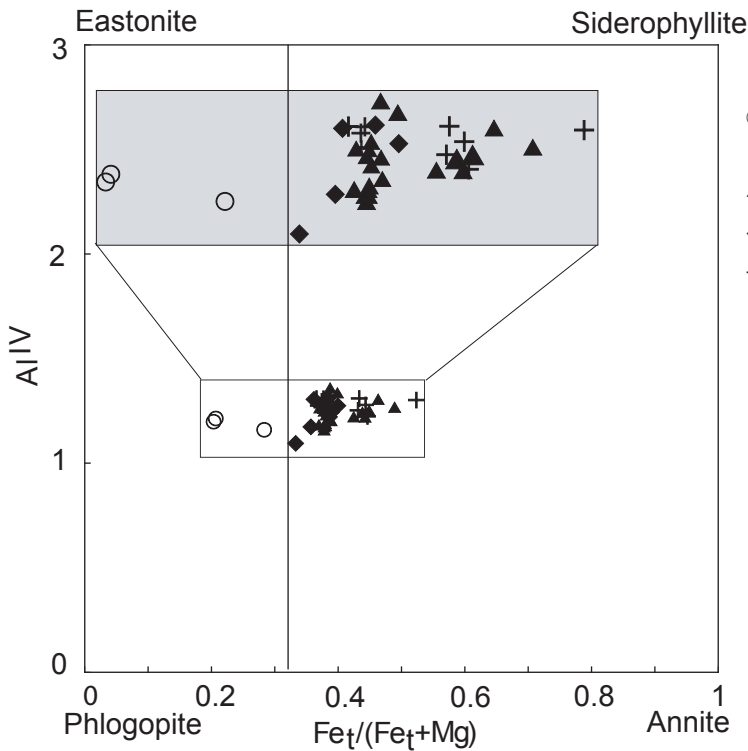
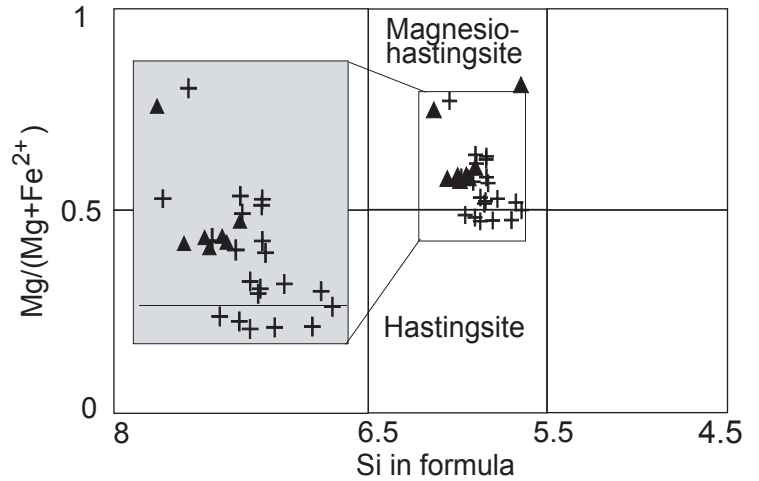
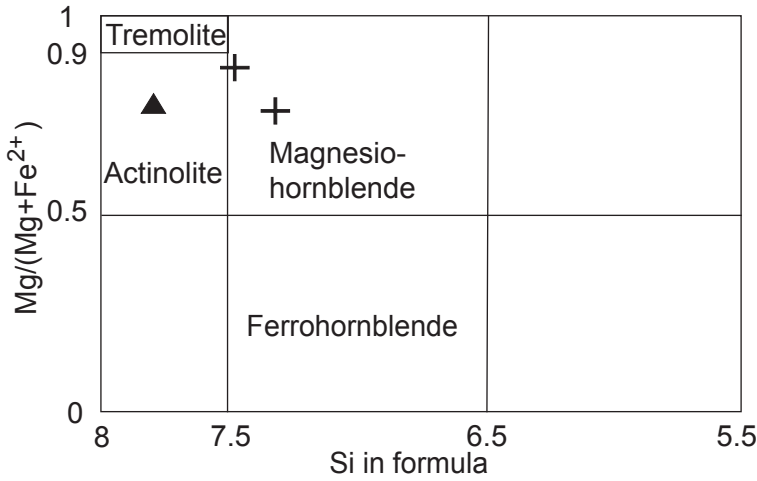
Chemical classification diagrams for clinopyroxenes, micas, amphiboles and feldspars from high-K calc-alkaline rocks and biotite granites. (Cycle 1). Clinopyroxene and amphibole classification diagrams are after Morimoto, (1988) and Leake et al., (1997), respectively.





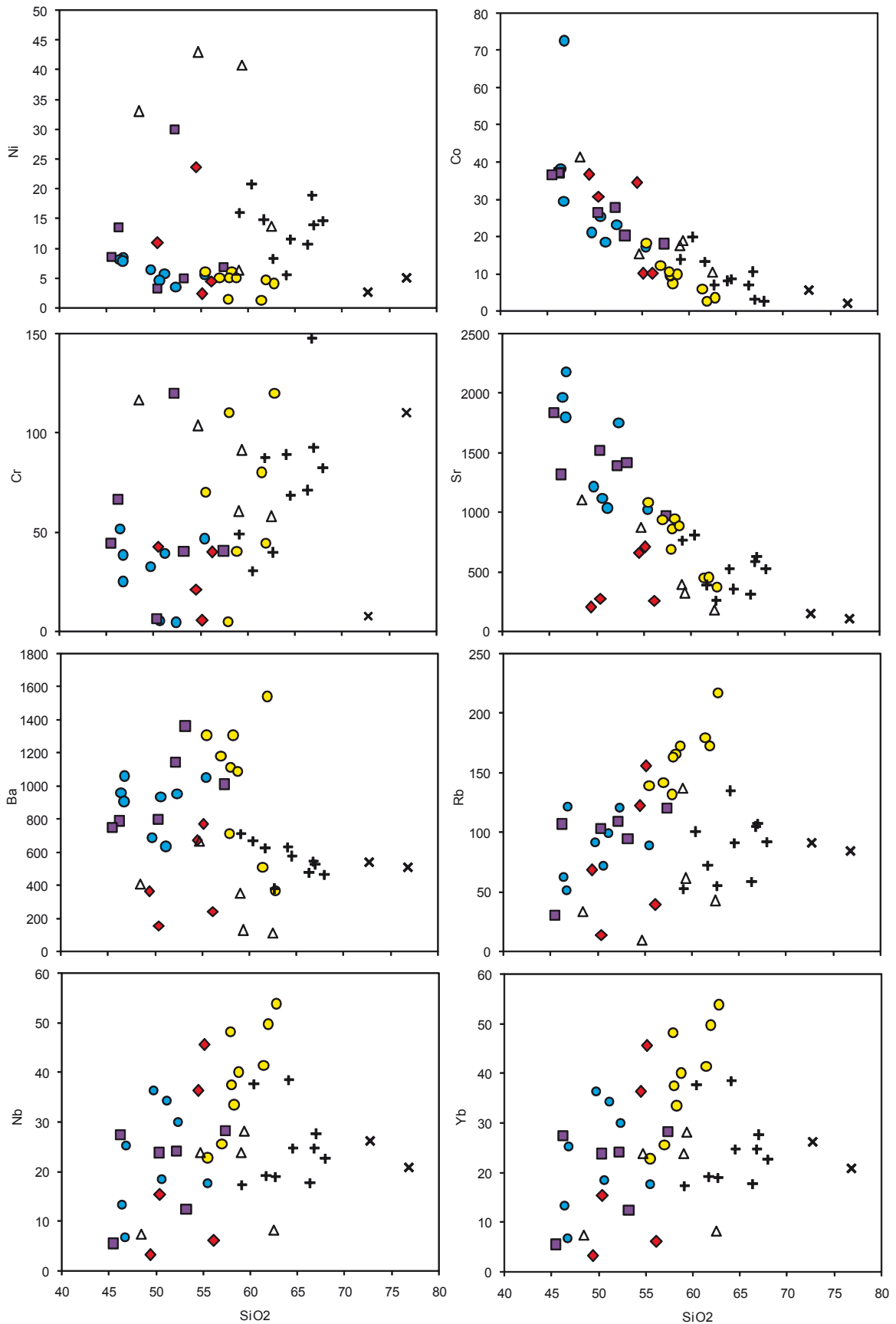
Chemical classification diagrams for clinopyroxenes from the shoshonitic association (Cycle 2). Clinopyroxene classification diagrams are after Morimoto, (1988).

Chemical classification diagrams for amphiboles, micas and feldspars from the shoshonitic association (Cycle 2). Amphibole classification diagrams are after Morimoto, (1988).



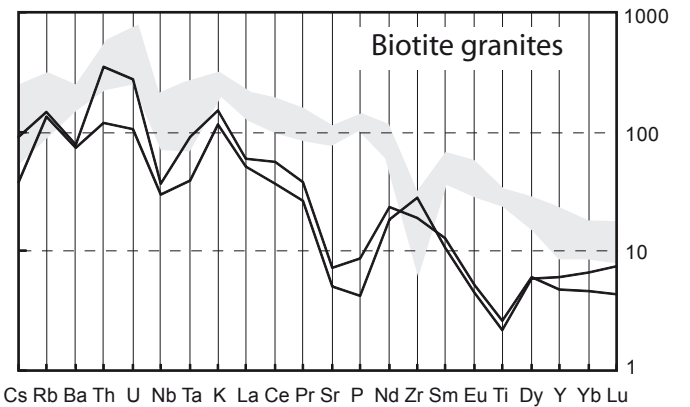
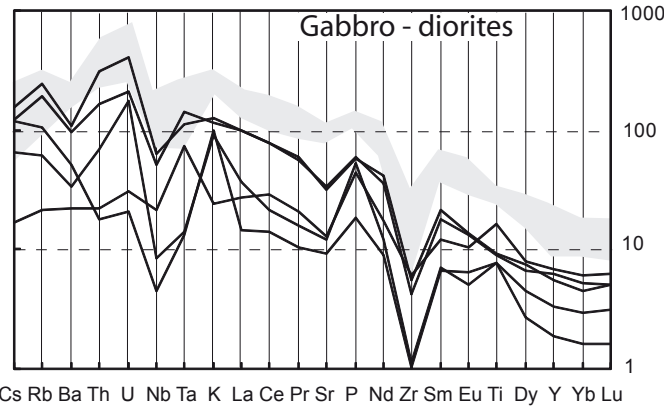
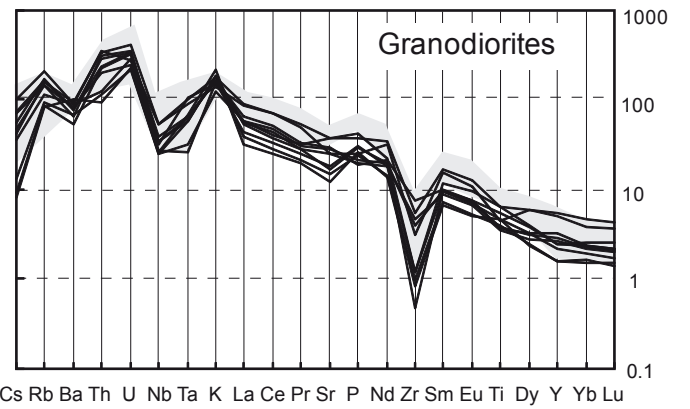
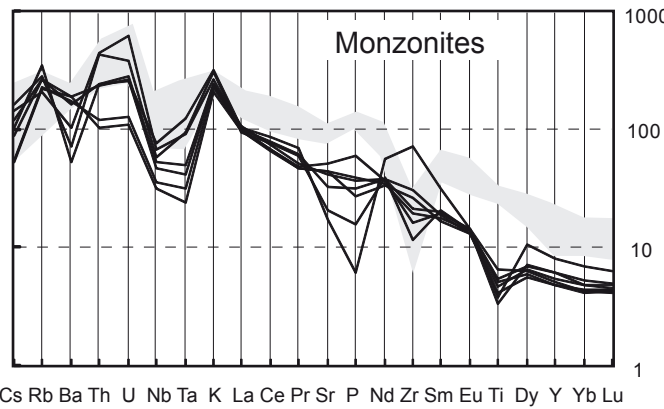
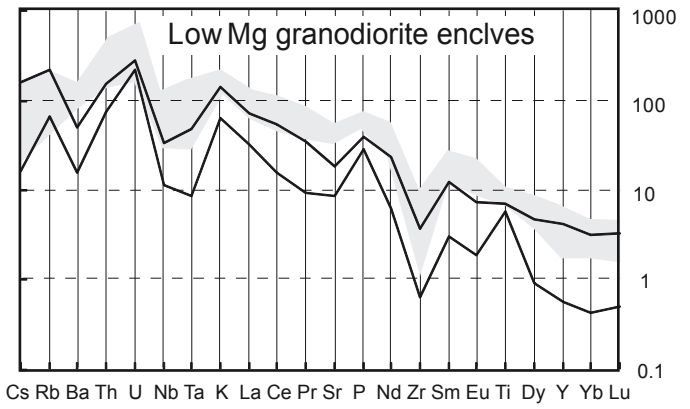
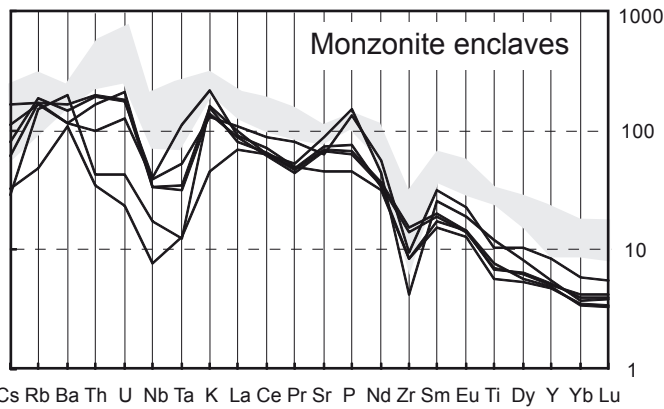
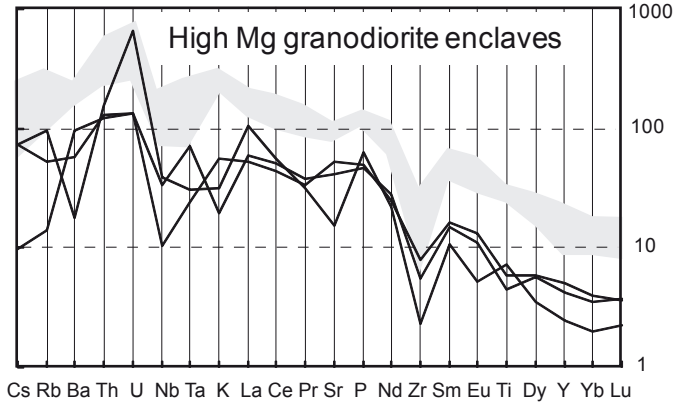
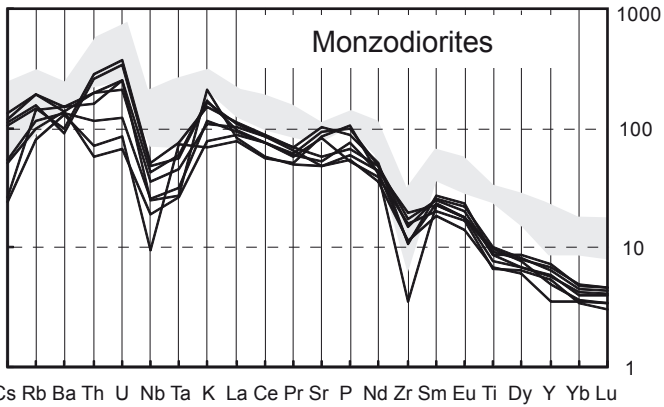
- : Nepheline bearing melasyenite
- ▲: Melasyenite
- ◆: Enclave syenite
- +: Syenite

Silica vs. trace element diagrams for SDIC rocks.



Mantle normalized spider diagrams for different rock types in the SDIC. Grey area shows Khankandi pluton monzonites (after Aghazadeh et al., 2010).

x Primordial mantle



References

Kretz, R., 1983. Symbols for rock-forming minerals. *American Mineralogist* 68, 277-279.

Leake, B.E., Woolley, A.R., Arps, C.E.S., Birch, W.D., Gilbert, M.C., Grice, J.D., Hawthorne, F.C., Kato, A., Kisch, H.J., Krivovichev, V.G., Linthout, K., Laird, J., Mandarino, J.A., Maresch, W.V., Nickel, E.H., Rock, N.M.S., Schumacher, J.C., Smith, D.C., Stephenson, N.C.N., Ungaretti, L., Whittaker, E.J.W., Youzhi, G., 1997. Nomenclature of amphiboles; report of the subcommittee on amphiboles of the International Mineralogical Association, Commission on New Minerals and Mineral Names. *Canadian Mineralogist* 35, 219–246.

Morimoto, N., 1988. Nomenclature of pyroxenes. *Mineralogy and Petrology* 66, 237–252.