

ERRATUM

Octahedral excess mixing properties in biotite: A working model with applications to geobarometry and geothermometry, by A. E. Patiño Douce, A. D. Johnston, and J. M. Rice (v. 78, p. 113–131). The calculated loci of the QFM buffer at 7, 10, and 13 kbar shown in Figure 1 of Patiño Douce et al. (1993) are in error. The correct loci (calculated with standard-state thermodynamic properties from Berman, 1988) are shown here in Figure 1 (numbers on curves indicate pressure in kilobars). This error in no way affects any of the derivations or conclusions of Patiño Douce et al. (1993) regarding mixing properties in biotite. In particular, estimation of Fe^{3+} contents in biotite relies on f_{O_2} values in the experimental charges, which were estimated from Reaction 1 (and shown by symbols in Fig. 1), and these values are not affected. The only statement that must be modified is that regarding the redox conditions in NaCl-based piston-cylinder cell assemblies, which are now shown to be at or below QFM and not 2 log units above QFM, as asserted in Patiño Douce et al. (1993).

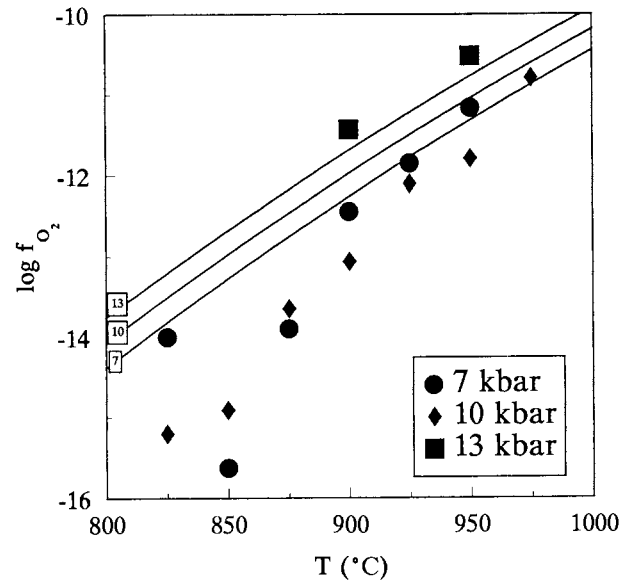


Fig. 1. The f_{O_2} values in experiments (symbols) estimated from garnet compositions.