Mutual replacement reactions in alkali feldspars II: trace element partitioning and geothermometry

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The original version of this article unfortunately contained a mistake. It affects the bottom line of numbers in Table 3.

Both the numbers 382 and 392 should be 340. In addition, two unwanted lines of text were printed below the table. The corrected table is given here.

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Table 3 Temperature estimates for exsolution and coarsening events

Crystal			140177	KB22	KS55B	KS55C
Bulk An of braid, mol%			3.85	1.91	1.82	0.93
Event	Basis	<i>T</i> from	<i>T</i> °C	<i>T</i> °C	<i>T</i> °C	<i>T</i> °C
(1) <i>Minimum T</i> for crystal growth	Ternary solvus isotherm at 0.1 GPa, Elkins and Grove (1990)		830	770	750	740
Braid perthite formation						
(2) Spinodal decomposition	(1) minus <i>T</i> interval between coherent and strain-free solvi, Brown and Parsons (1984, Fig. 9)		770	710	690	680
(3) Coarsening, ordering, twinning and interface rotation	Brown and Parsons (1984; Fig. 8) Brown and Parsons (1989, Fig. 3)		Continuous into low microcline field at 450–420°C			
Patch perthite formation						
(4) Strain-free ternary feldspar pairs, disordered	Two-feldspar tie-lines defined by average analyses in Table 1, at 0.1 GPa, Elkins and Grove (1990)	Average	504	487^a	502	506
		<i>T</i> _{Ab}	452	489	379	376
		<i>T</i> _{An}	504	489	502	506
		<i>T</i> _{Or}	504	482	502	506
(5) Correction of (4) for Si–Al ordering	Brown and Parsons (1984, Fig. 9)	Concordant <i>T</i> only	584	567	582	586
Third stage exsolution						
(6) Maximum <i>T</i> for coherent nucleation of albite lamellae	Ordered coherent solvus of Yund (1974). Based on Or only, An ignored		424	461	340	340
(7) Formation of misfit dislocations		Nucleation below (6), following coarsening. Variable with bulk composition of Or-rich patch				

^a Temperatures in *bold* are concordant, as defined by Fuhrman and Lindsley (1988)