



six of the nine microclines whose refined structures they described earlier (Dal Negro *et al.* 1978). The changes are incorporated into the accompanying Table 1 Revised, which also includes corrected values of  $T_{110}$  and  $T_{1\bar{1}0}$ . Although the corrected  $\alpha$  and  $\gamma$  angles lead to changes of up to 0.008 Å in some individual distances  $T_{j-O}$  from those given in Table 3 in Dal Negro *et al.* (1978), all the mean distances  $\overline{T}_{j-O}$  are unchanged except for  $\overline{T}_{1O-O}$  of specimen CA1E, which changes by only 0.001 Å. Consequently, all the  $\overline{T}_{j-O}$  values and the Al contents  $t_j$  derived assuming both the Jones-Ribbe-Gibbs and the Smith-Bailey *versus*  $T-O$  relationships ( $t_j^J$  and  $t_j^S$ , respectively) in Table 1 Revised remain unchanged from the original Table 1.

Because the plot of  $T_{110}$ ,  $T_{1\bar{1}0}$  against the sums of certain Al contents, shown as Figure

3 in the original paper, was included for discussion rather than determinative purposes, the small changes in a number of the plotted points resulting from the revised  $\alpha$  and  $\gamma$  angles of Dal Negro *et al.* (1980) have not been made in that figure. On the other hand, because the plot of mean  $T-O$  distances (and Al contents) against interaxial angle  $\gamma$  (and other parameters) shown as Figure 5 is intended for determinative purposes, the points have been replotted using the corrected  $\gamma$  values and the unchanged  $\overline{T}_{j-O}$  distances shown in Table 1 Revised; new linear regression lines were calculated, leading to the accompanying Figure 5 Revised. The constants for the new linear-regression equations for these triclinic microclines are shown in Table 2 Revised, which also includes slight changes found necessary in the equations for the monoclinic specimens (unrelated to the changes in the triclinic specimens).

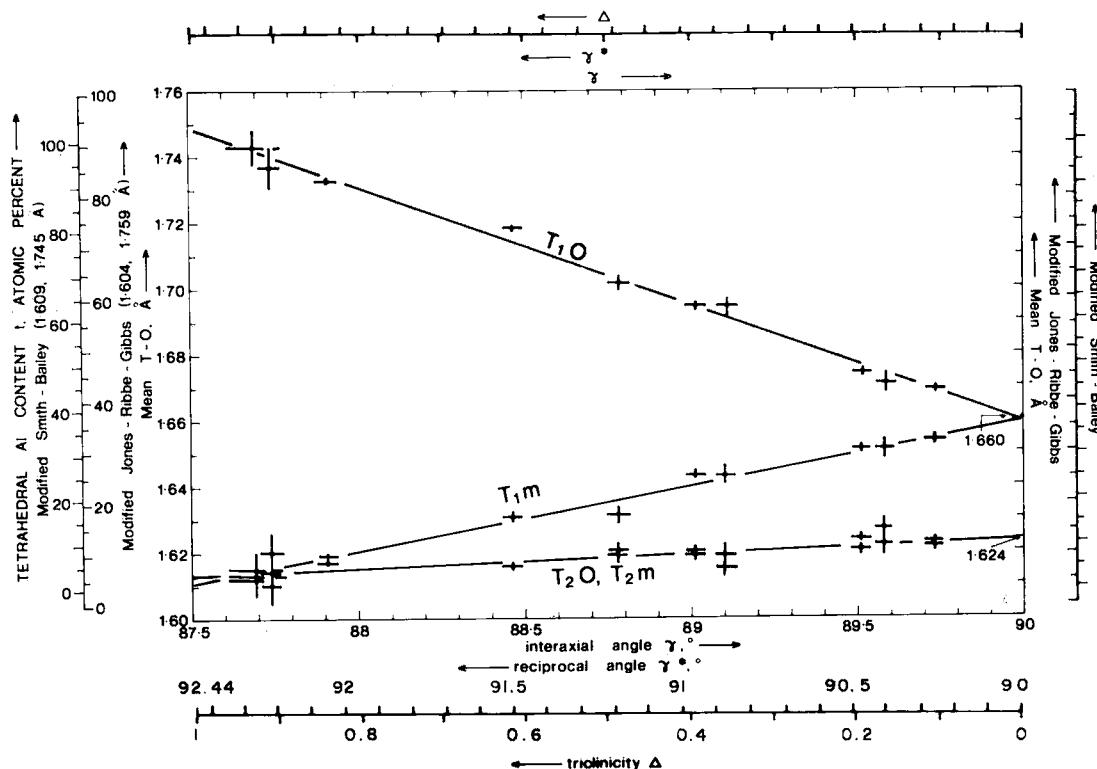


FIG. 5 REVISED. Changes in relation to Figure 5 in Ferguson (1980) involve a replotting of some of the points, consequent recalculations and redrawing of the linear regression lines, and a slight modification in the  $\gamma^*$  scale, all of which are explained in the accompanying text.

TABLE 2 REVISED. LINEAR REGRESSION EQUATIONS\* FOR DETERMINATIVE CURVES

Monoclinic: Figure 4				Triclinic: Figure 5			
y**	x	w	c	y***	x	w	c
$t_1^0 - b$	-0.269913	5.16493	-0.964	$t_1^0 - b$	-0.034870	4.79800	-0.996
$t_1^J$	-174.193	2298.09	-	$t_1^J$	-22.5036	2051.26	-
$t_1^S$	-198.654	2617.11	-	$t_1^S$	-25.6484	2345.64	-
$t_2^0 - b$	0.290490	-2.14671	0.964	$t_2^0 - b$	0.020264	-0.16404	0.992
$t_2^J$	187.420	-2419.91	-	$t_2^J$	13.0839	-1141.55	-
$t_2^S$	213.602	-2761.65	-	$t_2^S$	14.9118	-1304.71	-
$t_1^0 - c$	0.621253	-2.81169	0.974	$t_1^0 - c$	0.005069	1.17365	0.834
$t_1^J$	400.805	-2848.94	-	$t_1^J$	3.22568	-277.150	-
$t_1^S$	456.803	-3250.65	-	$t_1^S$	3.67664	-319.574	-
$t_2^0 - c$	-0.656690	6.35249	-0.957	$t_1^0 - c$	0.03725	-1.55555	-
$t_2^J$	-423.711	3063.83	-	$t_1^J$	23.0570	-2039.19	-
$t_2^S$	-482.805	3488.18	-	$t_1^S$	26.2791	-2327.84	-
$t_1^0 - c/b^*$	-1.06803	3.80404	-0.984	$t_1^0 - c$	-0.020766	3.52675	-
$t_1^J$	-688.979	1419.24	-	$t_1^J$	-13.4056	1242.51	-
$t_1^S$	-785.229	1613.83	-	$t_1^S$	-15.2785	1412.42	-
$t_2^0 - c$	1.13901	-0.661067	0.975	$t_2^0 - c$	-0.005131	2.08622	-
$t_2^J$	734.678	-1461.00	-	$t_2^J$	-3.30500	310.611	-
$t_2^S$	837.317	-1668.79	-	$t_2^S$	-3.76705	350.358	-
				$t_1^0 - b$	0.087170	1.65974	-
				$t_1^J$	56.2590	35.9350	-
				$t_1^S$	64.1210	37.2790	-
				$t_1^0 - c$	-0.050670	1.65977	-
				$t_1^J$	-32.7097	36.0000	-
				$t_1^S$	-37.2795	37.3530	-
				$t_2^0 - c$	-0.012520	1.62442	-
				$t_2^J$	-8.06420	13.1610	-
				$t_2^S$	-9.19160	11.3240	-

\*Equations are of the standard form  $y = mx + c$ .\*\* $t_1^0$  and  $t_2^0$  are the Al-contents (wt.%) of site  $T_1$  forecast from the 'modified Jones-Ribbe-Gibbs' ( $A_1=546.16$   $T_0=1034.84$ ) and 'modified Smith-Bailey' ( $A_1=735.29$   $T_0=1183.09$ ) curves respectively.\*\*\*Correlation coefficients are not given for  $y=t_1^0$  and  $x=t_2^0$  and  $\Delta$  because experimental standard deviations cannot be assigned to these parameters.

Besides the replottedting of the points of Dal Negro *et al.*, one other minor change was found necessary in Figure 5 Revised: the curve correlating  $\gamma^*$  to  $\gamma$  changed such that the  $\gamma^*$  equivalent to the arbitrarily chosen  $\gamma$  of  $87.5^\circ$  for maximum microcline (as explained in the original paper) altered from  $92.35^\circ$  to  $92.44^\circ$ ; the resulting slight change in scale is incorporated into Figure 5 Revised.

The changes necessitated by the revised data of Dal Negro *et al.* (1980) are such as to cause no changes in the numerical conclusions and the interpretations given in the author's paper.

## REFERENCES

- DAL NEGRO, A., DE PIERI, R., QUAREN, S. & TAYLOR, W.H. (1978): The crystal structures of nine K feldspars from the Adamello massif (northern Italy). *Acta Cryst.* B34, 2699-2707.
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- FERGUSON, R.B. (1980): From unit-cell parameters to Si/Al distribution in K-feldspars. *Can. Mineral.*, 18, 443-458.