

The plots on figure 1 show encouraging correlation with field observations. Three critical assemblages are commonly observed:

- lawsonite-calcite-albite,
- lawsonite-aragonite-albite,
- lawsonite-aragonite-jadeite-quartz.

This sequence indicates increasing pressures of metamorphism, and that temperatures of glaucophane schist metamorphism are of the order 200-300°C (Brown, Fyfe, and Turner, 1962), the relative sequence in figure 1 are in the correct order. Coombs (1960) has observed lawsonite-calcite; Ghent (ms), the association lawsonite-aragonite-albite; and McKee (1962), the transition from lawsonite-albite to lawsonite-jadeite-quartz. It should be noted that much of the common jadeite of glaucophane schists contains significant amounts of diopside and aegirine in solid solution which may significantly lower the pressure of formation. There is thus an excellent correlation between calorimetric data, direct experiment, and field observation.

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