

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. If we assume that temperatures of glaucophane schist metamorphism are of the order of 200-300°C (Brown, Fyfe, and Turner, 1962), the relative stability fields 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 acmite 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.

ACKNOWLEDGMENTS

This work was supported by the Petroleum Research Fund of the American Chemical Society and the National Science Foundation.

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