

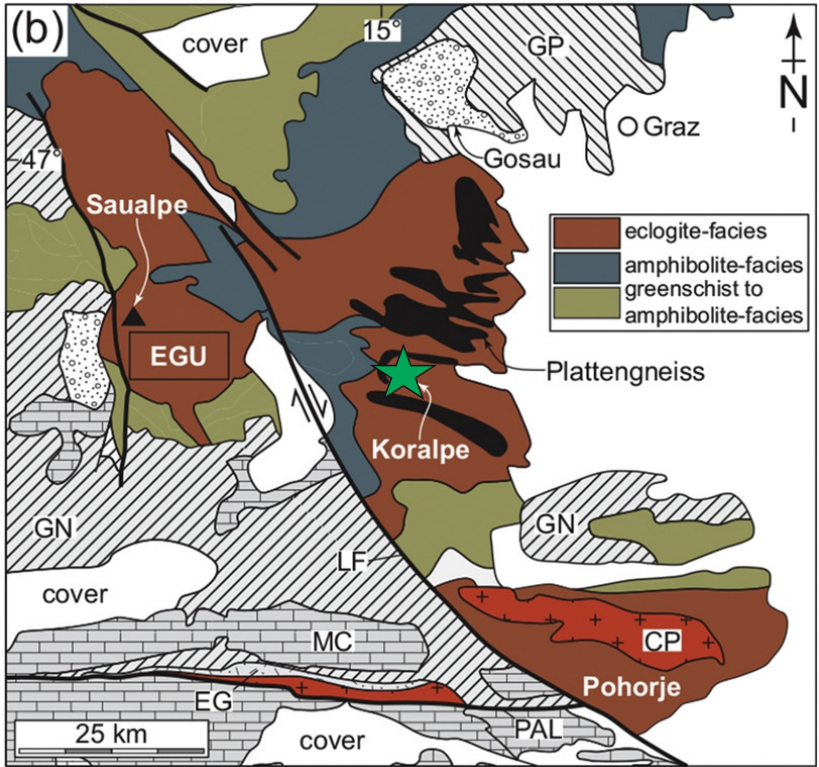
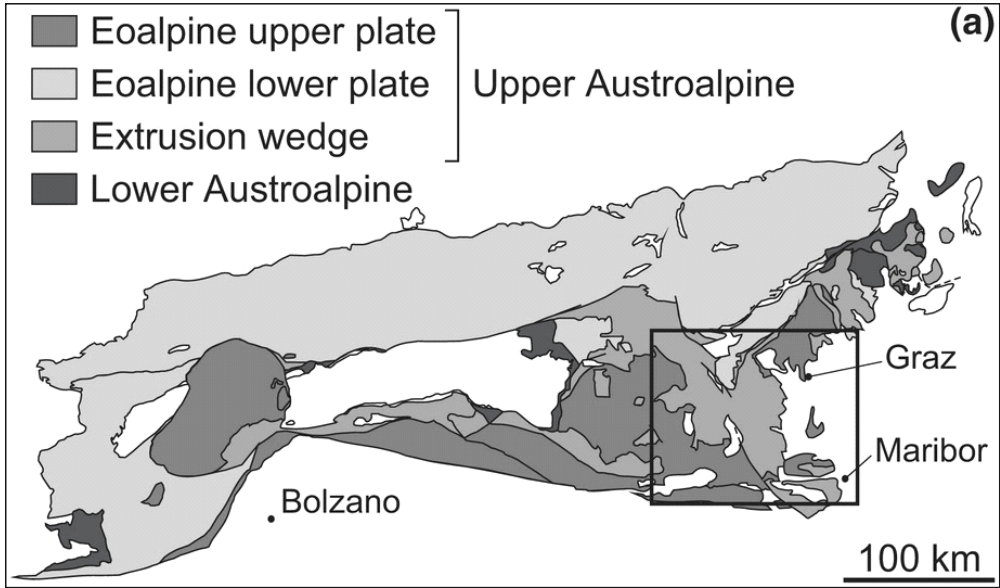
How to creep and when? Deformation mechanisms at the eclogite type locality (Sausalpe-Koralpe Complex, Eastern Alps, Austria).

Anna Rogowitz¹⁾
Benjamin Huet²⁾
Simon Schorn³⁾

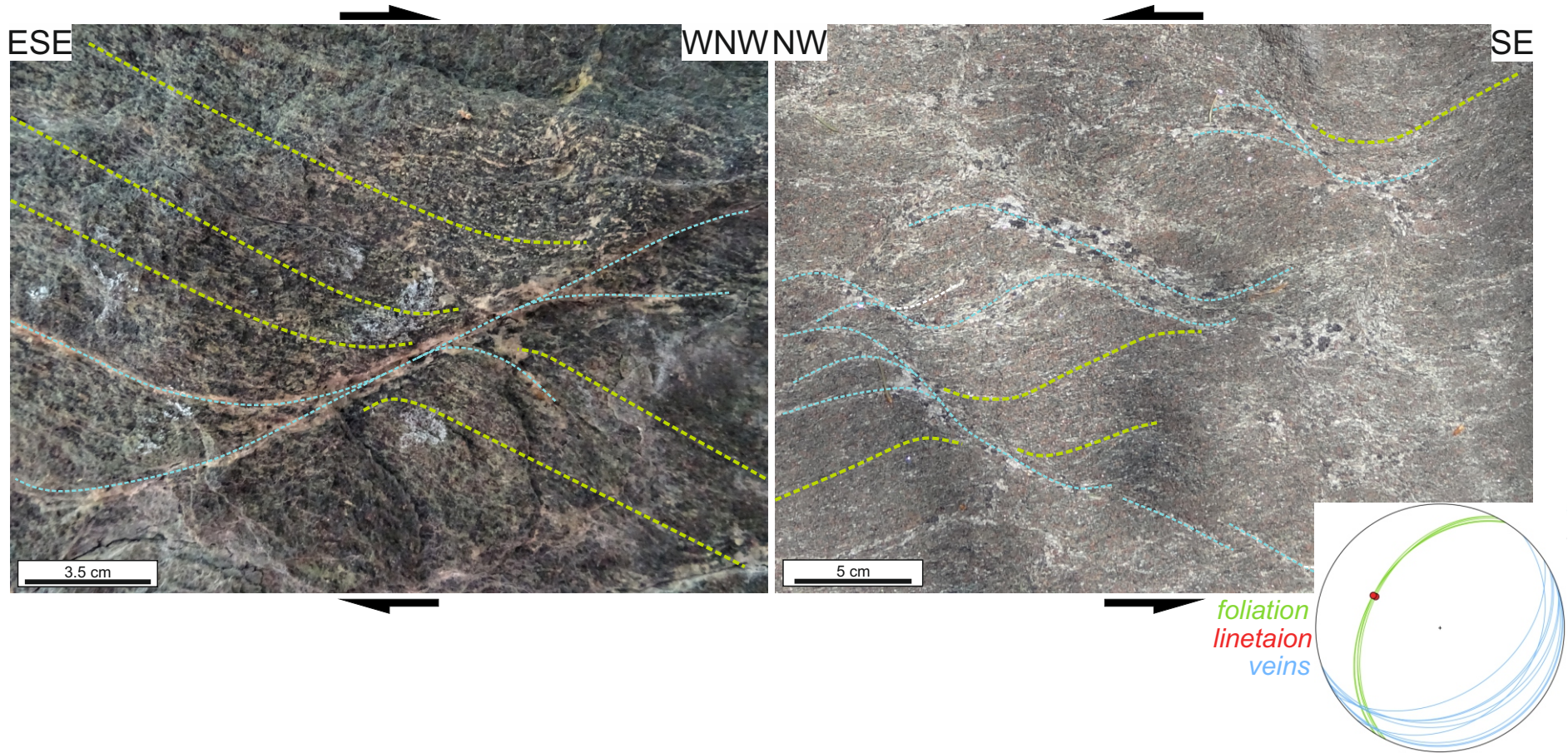
When to break and why
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Regional geology

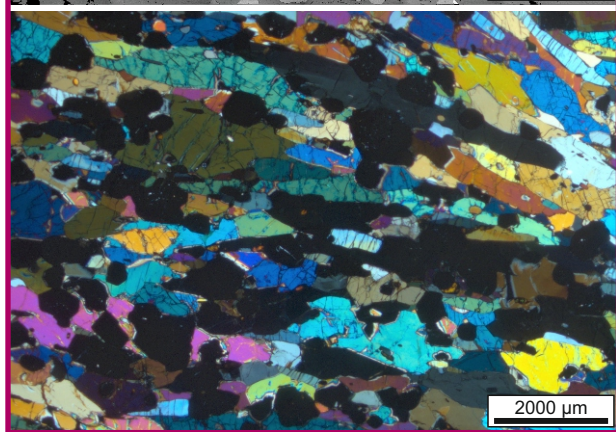
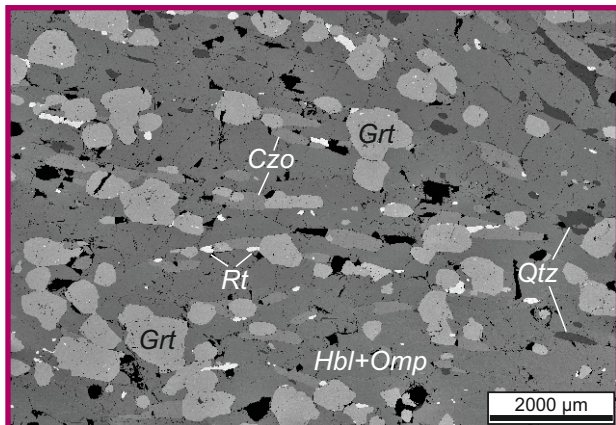


Macroscopic observations

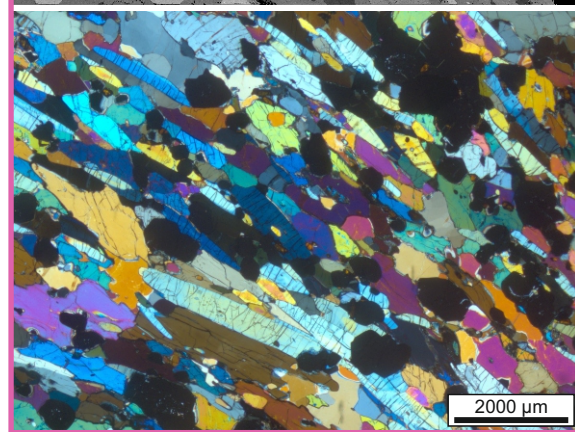
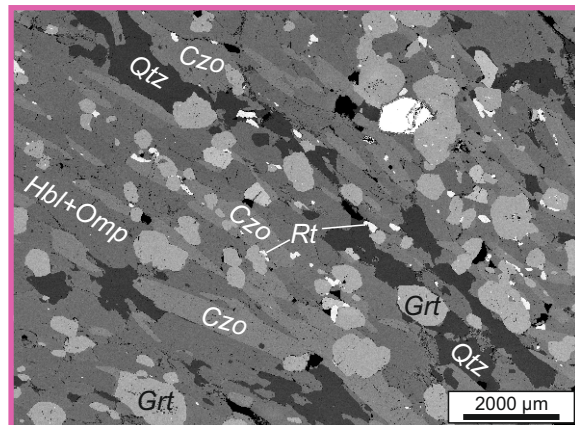


Microscopic observations

host

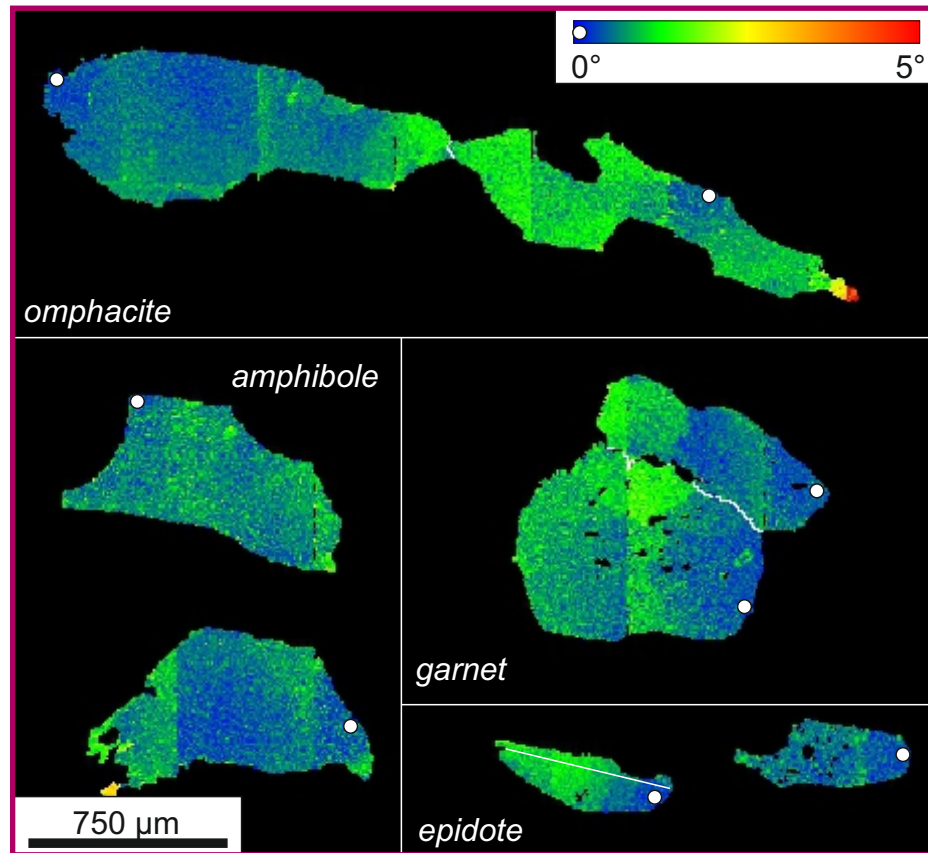


vein

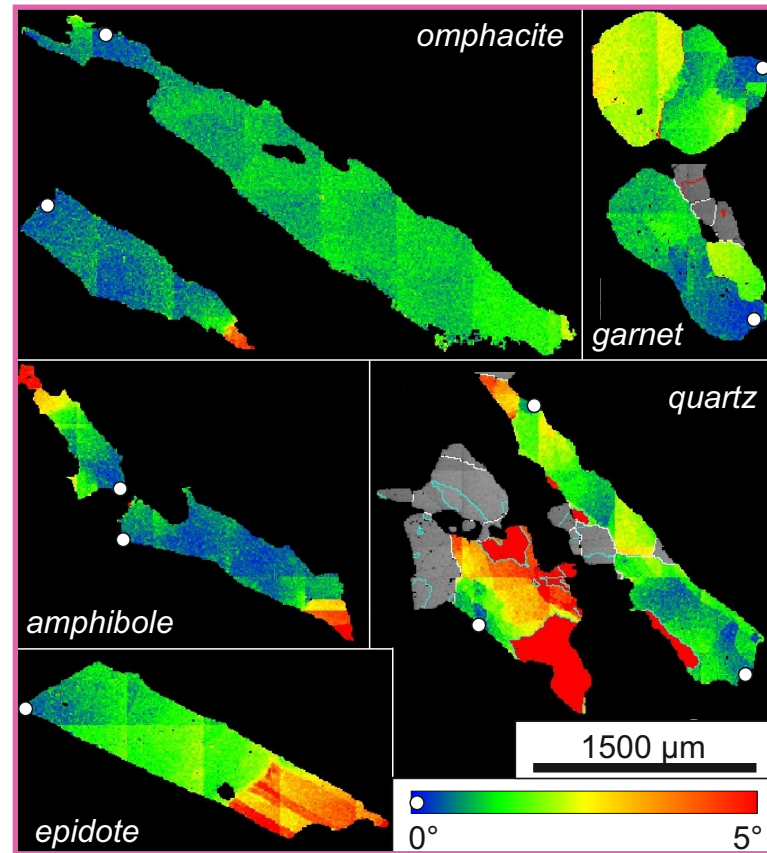


Crystal plasticity

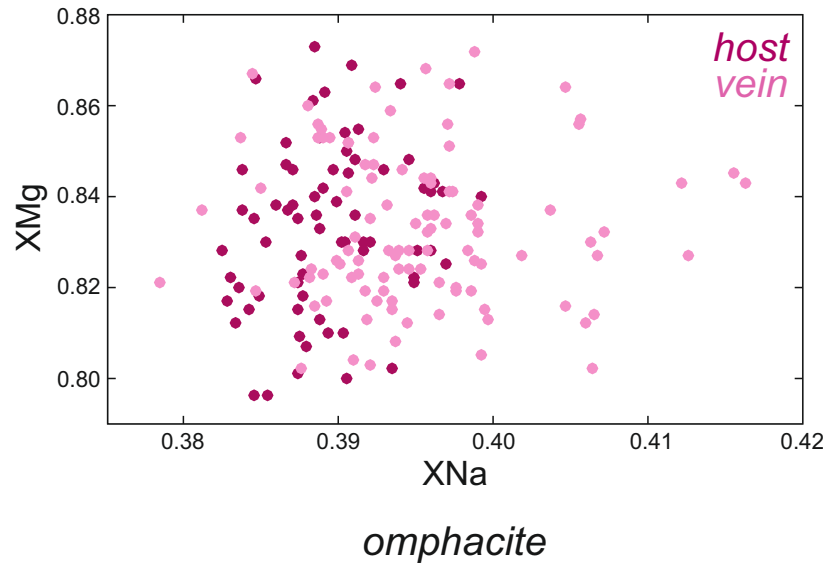
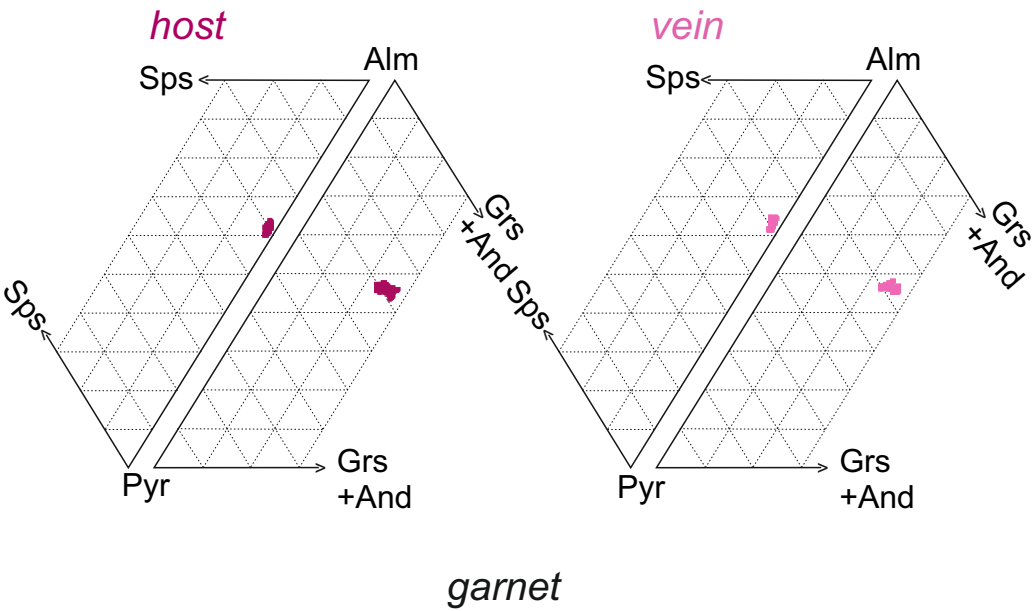
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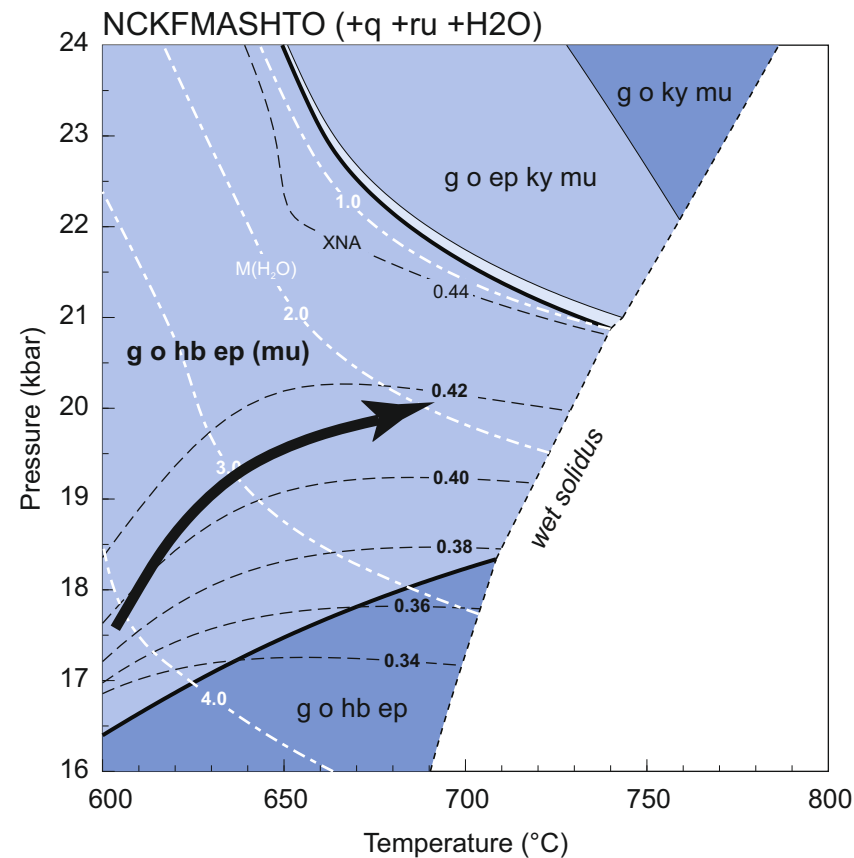
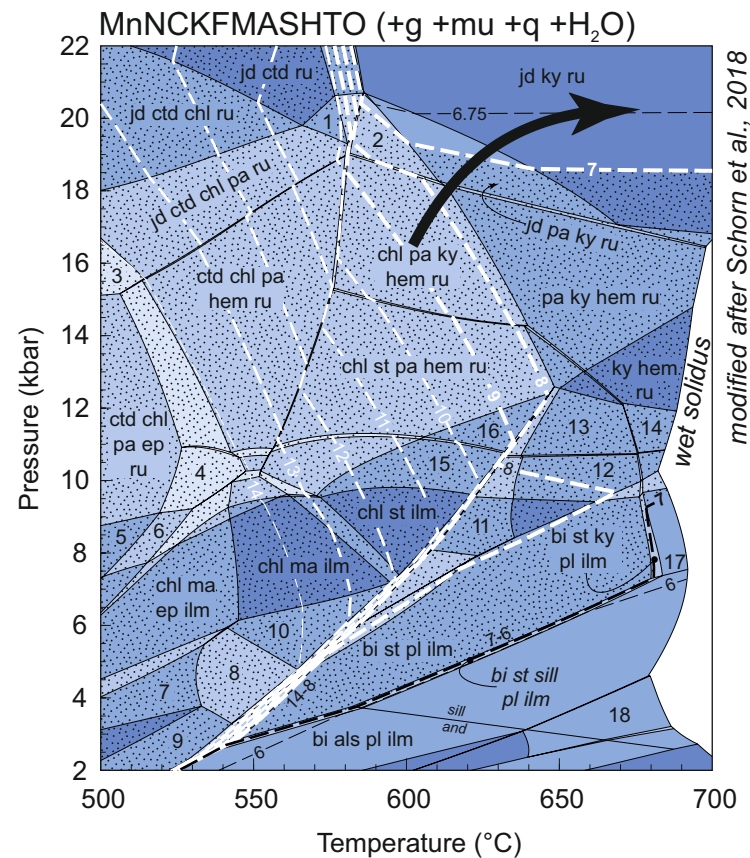
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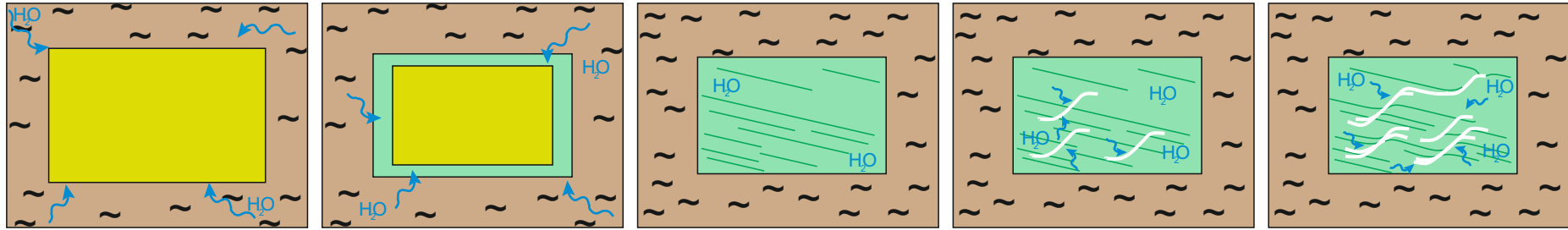
Mineral chemistry



Pressure-Temperature- H_2O estimates



Summary



- Dehydration of metapelites triggering eclogitization
- Fluid supported syn-tectonic eclogitization (diffusion creep)
- Dehydration of eclogite causing fracturing and veining (brittle)
- Reactivation of veins as flanking structures (dislocation creep)