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THERMOCHRONOLOGY OF A SUBDUCTION COMPLEX IN WESTERN BAJA CALIFORNIA

by

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A Dissertation

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College of Sciences and Mathematics

Department of Geological Sciences

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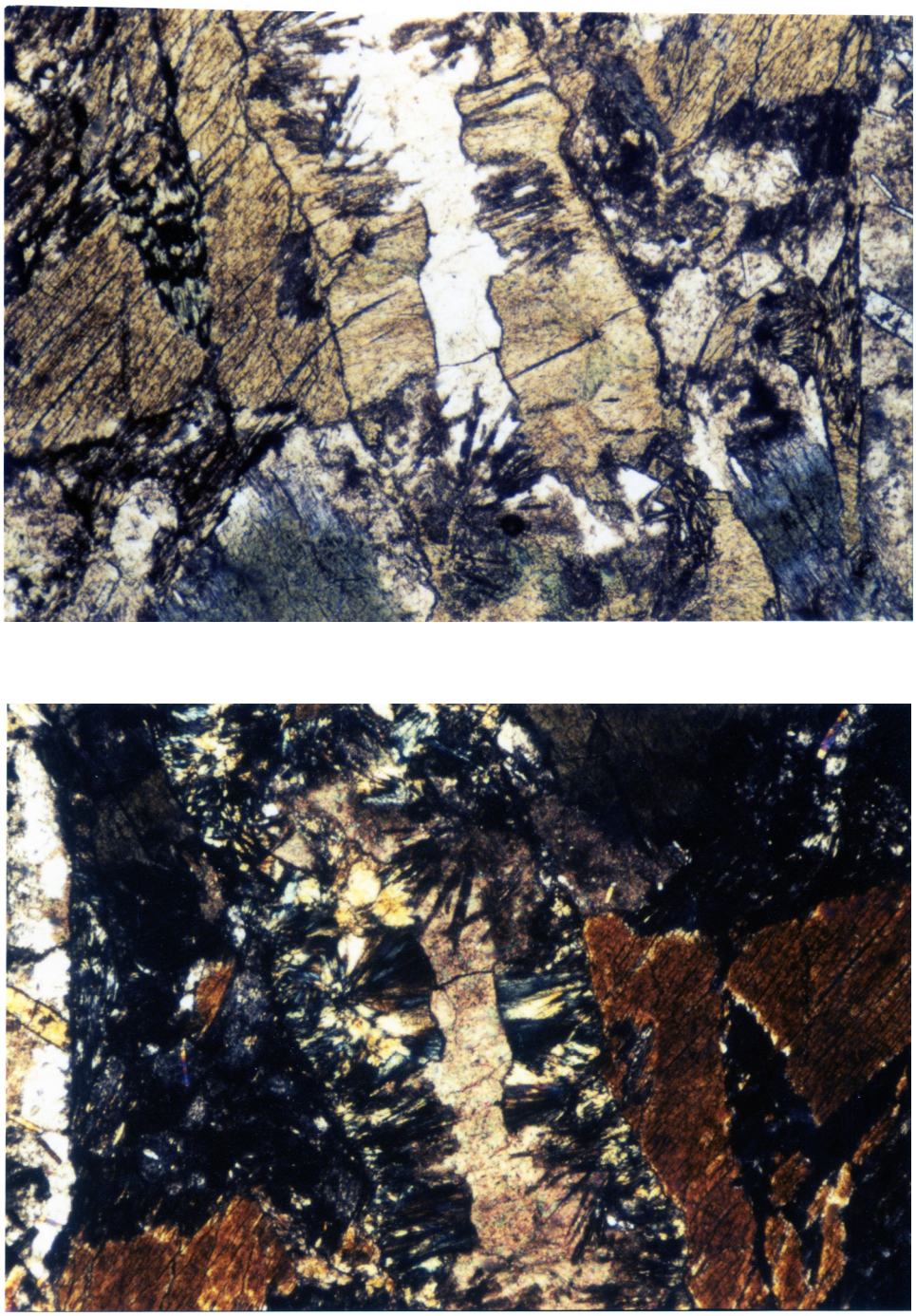


Figure 2.2: Photomicrographs of sample 2871 showing Ca-amphibole rimmed by Na-amphibole, pumpellyite and calcite/aragonite(?) vein a) plane polarized light 2.5x b) cross-polarized light. Width of photo is 4.4 mm.

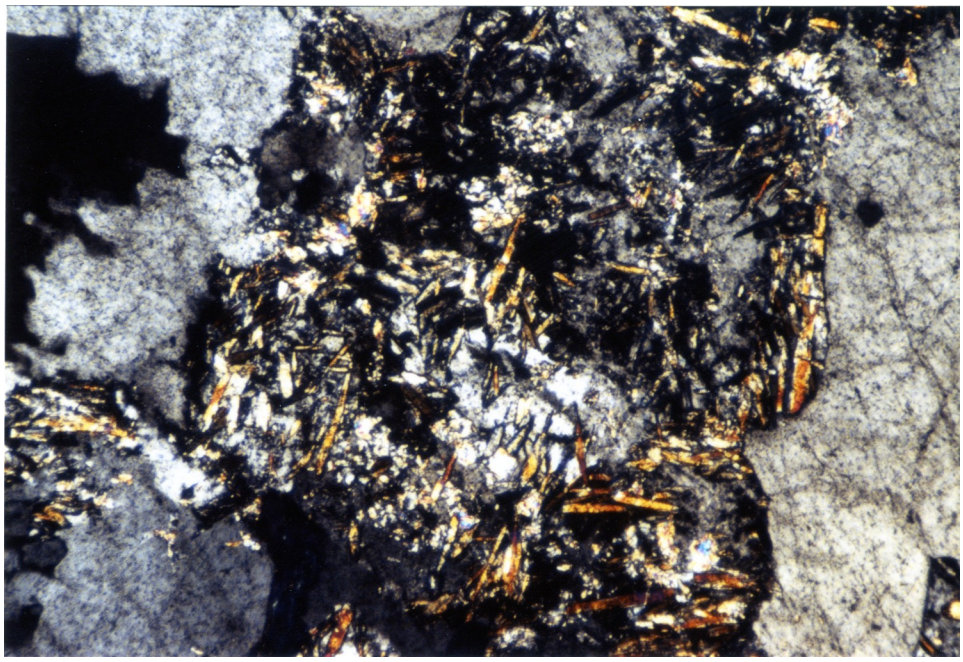


Figure 2.9: Photomicrograph of metasandstone from subterrane 3 (E) showing lawsonite replacing detrital plagioclase; crossed polars; width of photo is 2.2 mm.

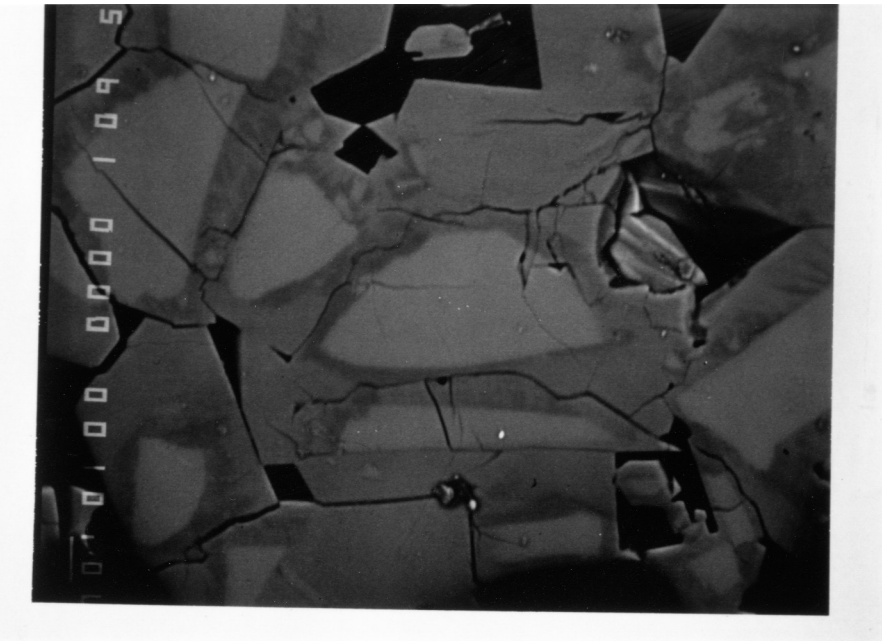


Figure 2.11: Backscattered electron image of Benson Mines orthoclase following treatment with 2M alkali solution at 700°C, 2 kbar for 118 hours. Scale bar indicates 10 μm.

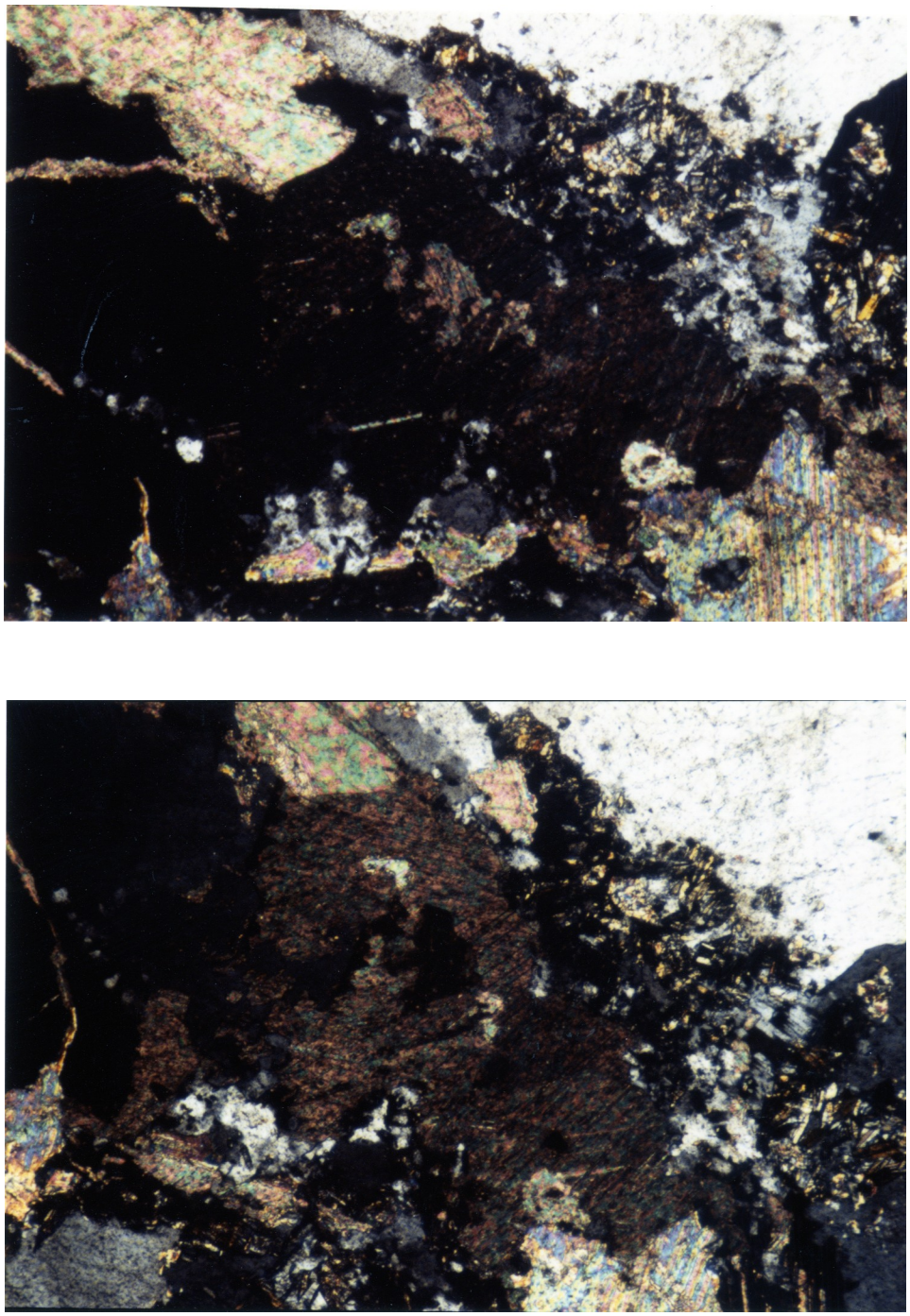


Figure 2.12: a) Photomicrograph of plutonic clast CGLB from a conglomerate of subterrane 2, showing calcite replacing aragonite. Crossed polars, width of photo is 4.4 mm; b) same as in a) except stage rotated 30°.

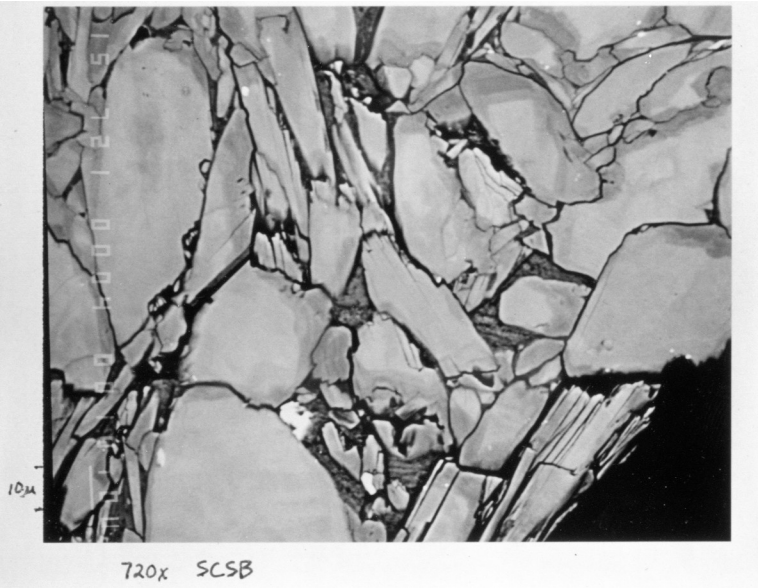


Figure 3.3: Backscattered electron image of a blue amphibole "grain" from the separate used to obtain $^{40}Ar/^{39}Ar$ results. Note small ($\leq$ 10 μm) intergrowths of white mica and zoning in Na-amphibole.

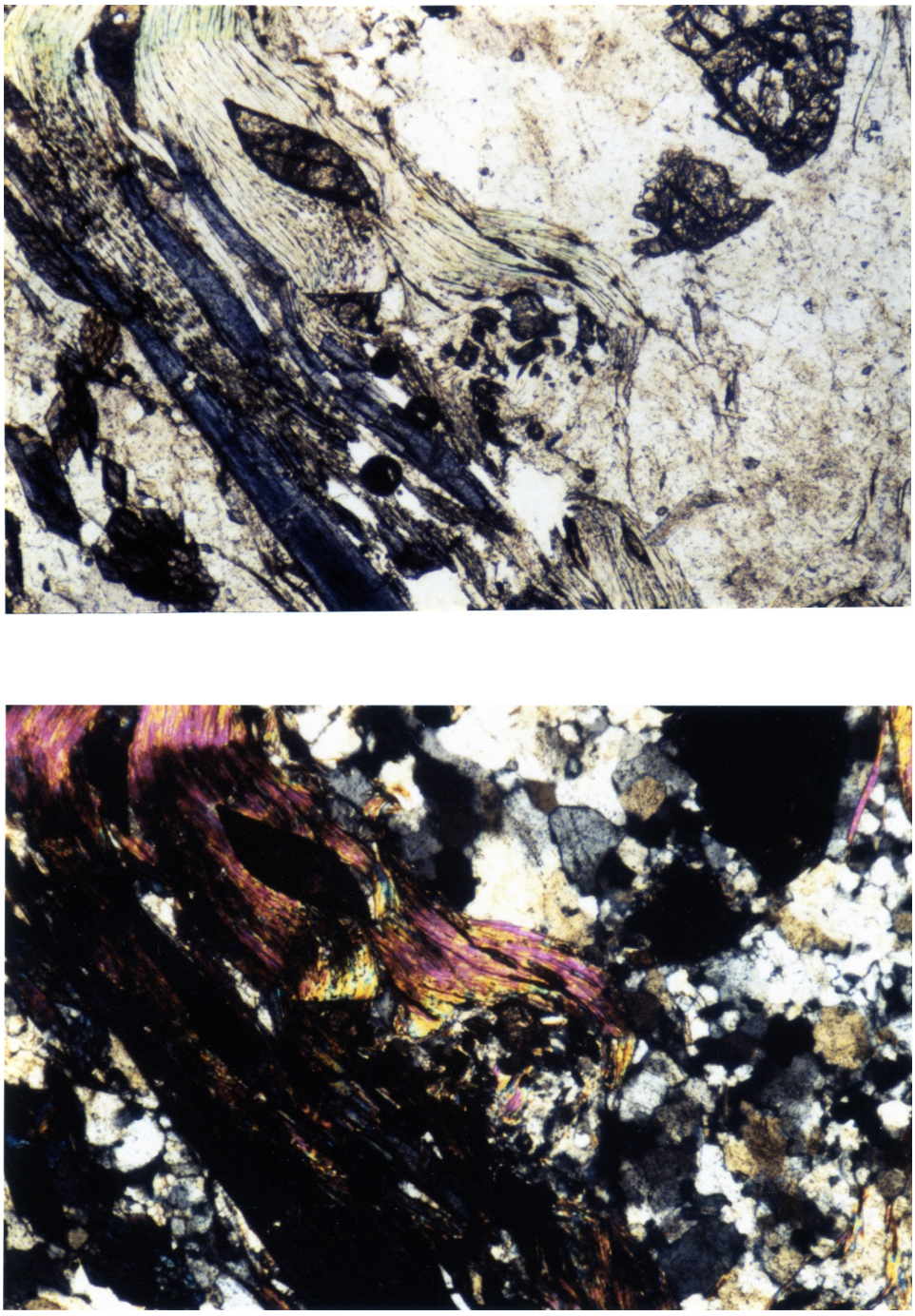


Figure 3.38: Photomicrographs of blueschist RRG showing the assemblage Na-amphibole + white mica + albite + sphene + quartz. a) plane polarized light; b) cross-polars width of picture is 4.4 mm.

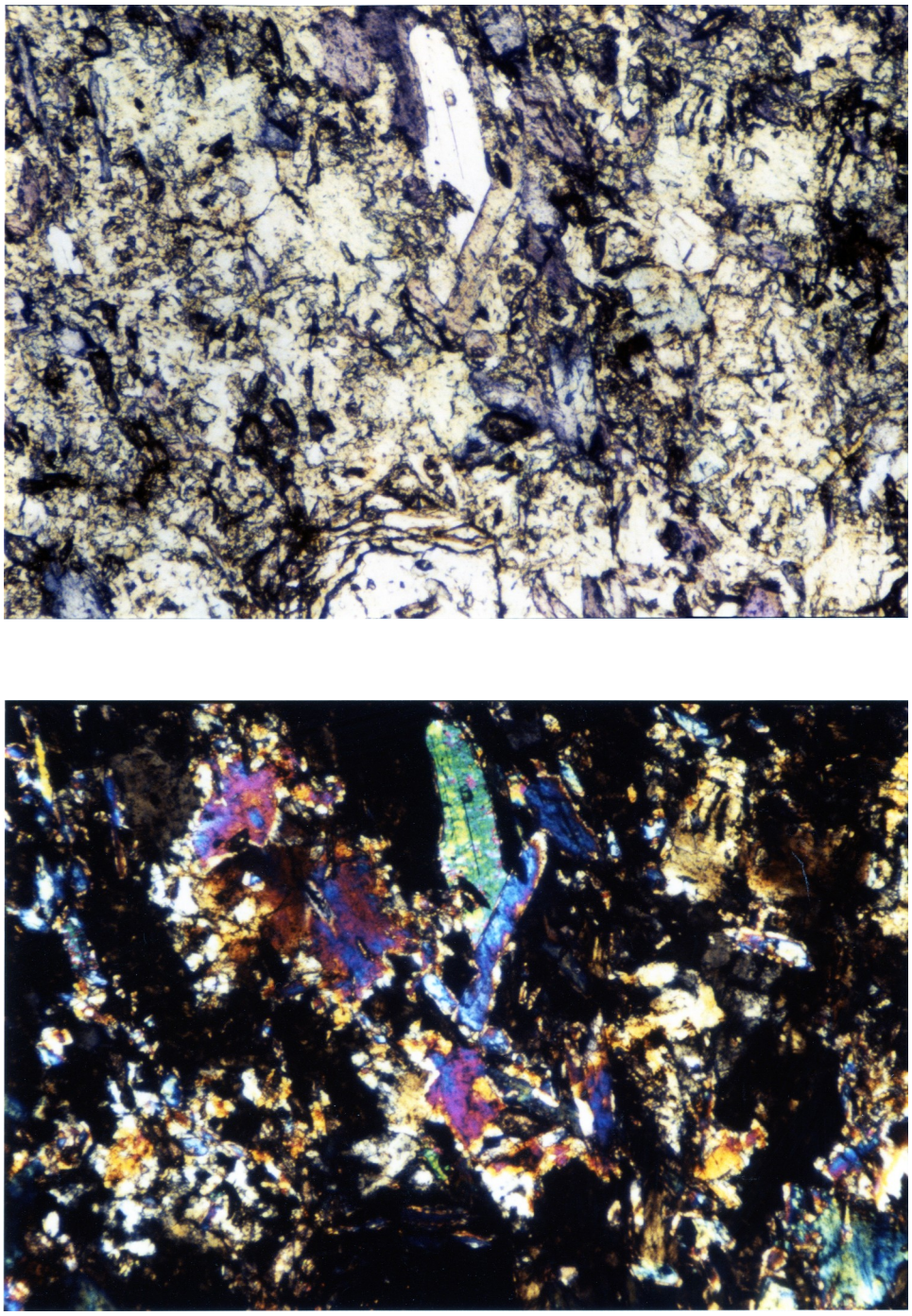


Figure 3.39: Photomicrographs of eclogite 585166. Assemblage includes omphacite + garnet + Na-amphibole + white mica + rutile. a) plane polarized light; b) x-polars. Width of picture is 4.4 mm.

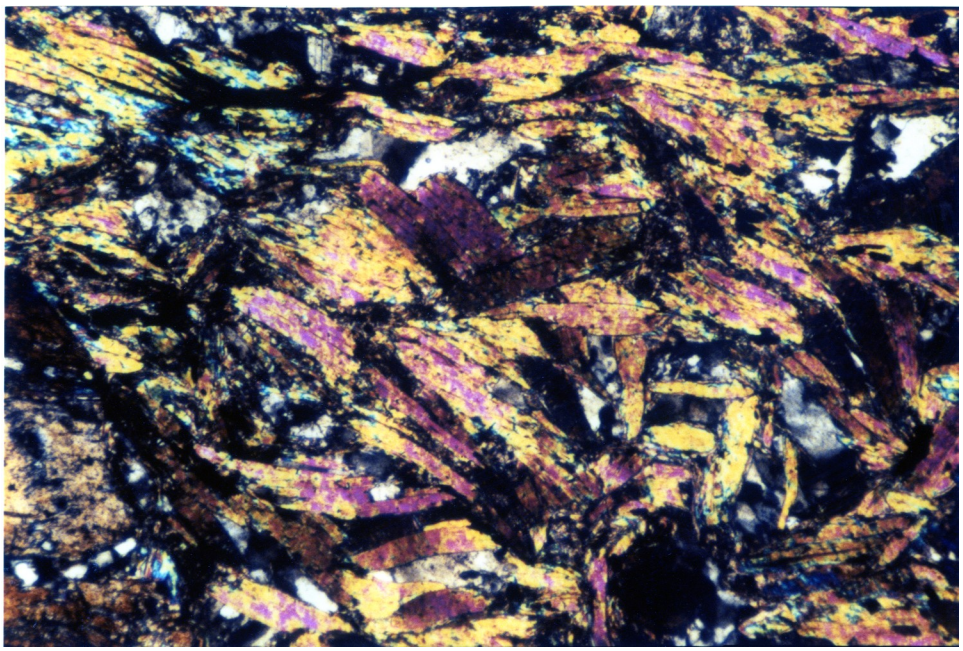


Figure 3.40: Photomicrograph of sample 687183 showing multiple generations of white mica. Cross polars; width of picture is 4.4 mm.

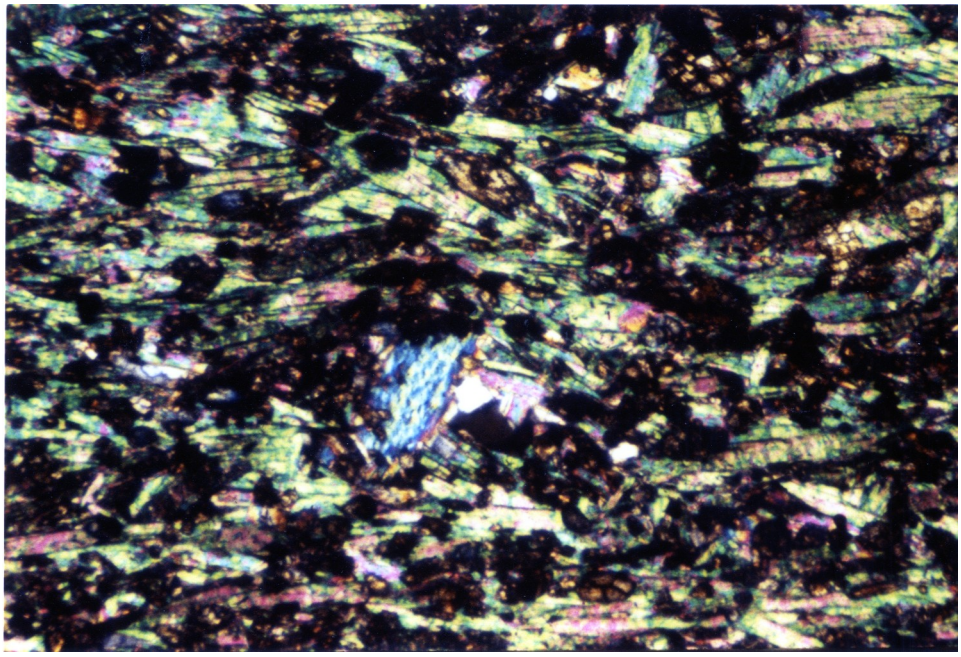
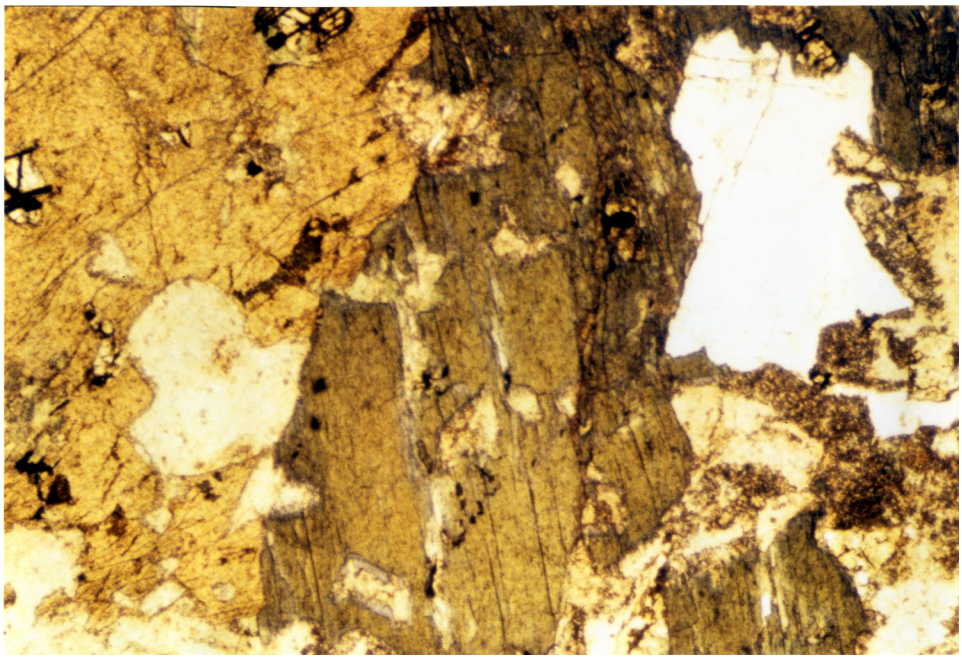


Figure 3.41: Photomicrograph of blueschist block 585178 showing multiple generations of white mica, in addition to rutile and garnet. Cross polars; width of picture is 4.4 mm.

a)



b)

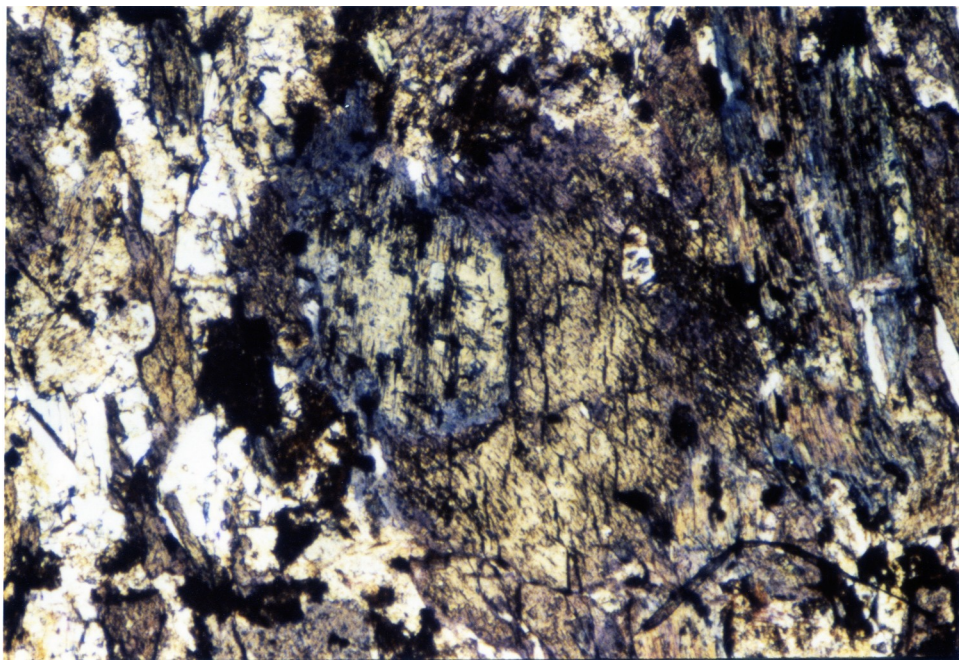


Figure 3.42: Photomicrograph of a) sample 687191, and b) sample 687186 showing Ca-amphibole rimmed by Na-amphibole; plane polarized light; width of picture is 2.2 mm.

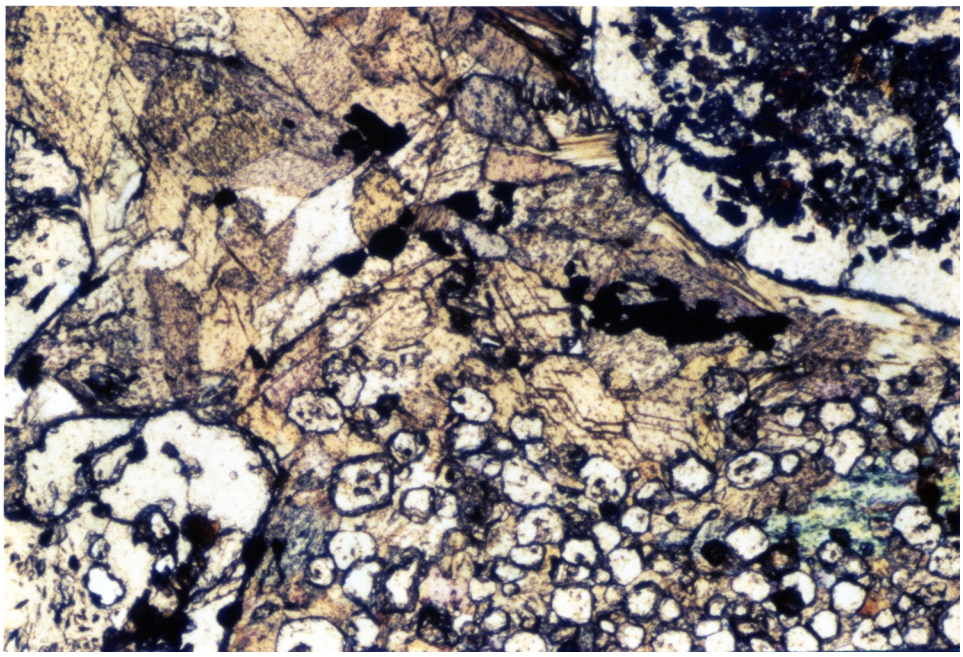


Figure 3.43: Garnet-amphibolite block (118576) showing hornblende + garnet + rutile + Fe-oxide + chlorite + biotite. Plane polarized light; width of photo is 7.6 mm.

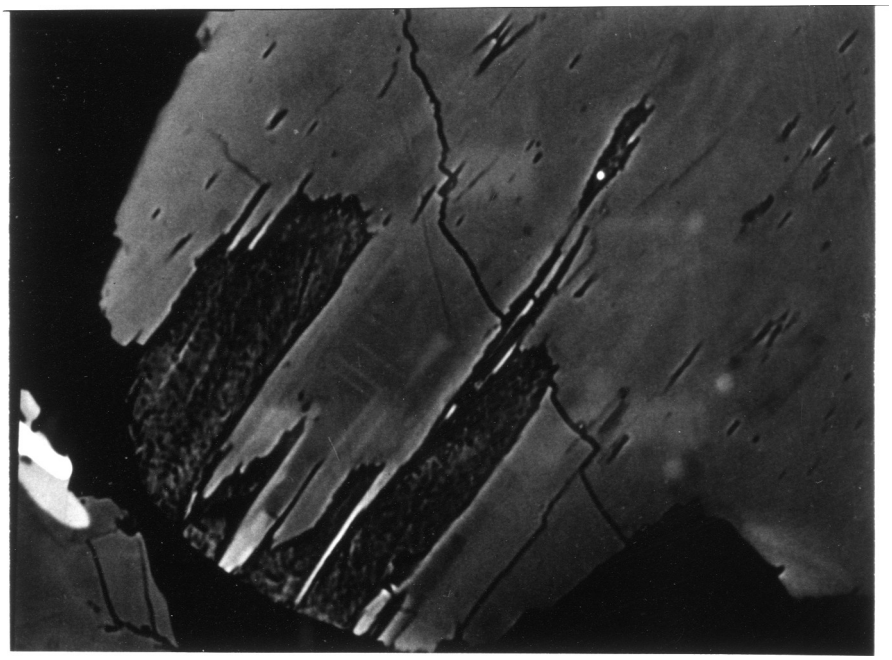


Figure 5.7: Backscattered electron image of RF hornblende showing chlorite intergrowths. Scale bar indicates 10 μm.

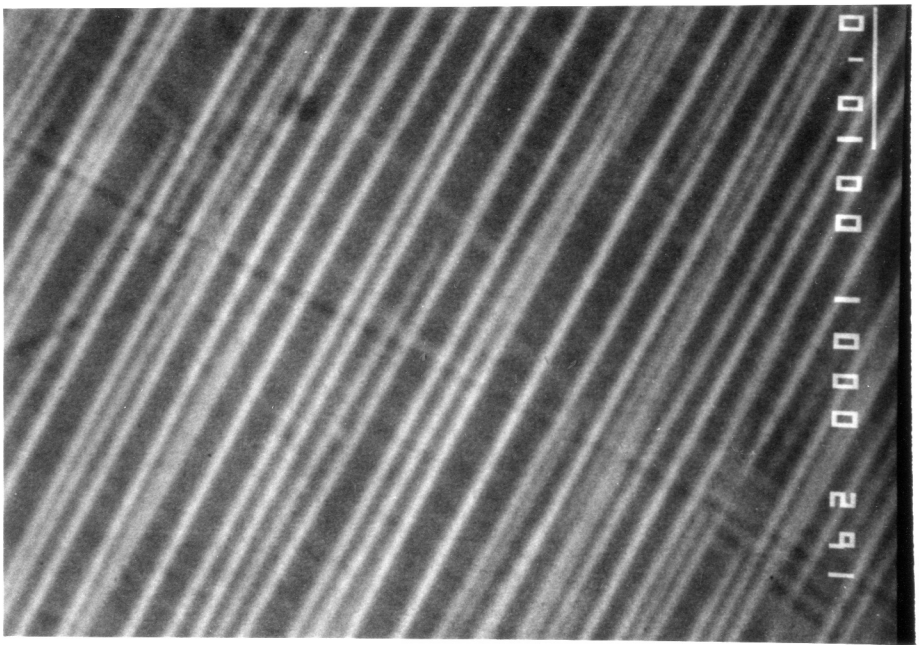


Figure 5.8: Backscattered electron image of 118576 hornblende showing exsolution lamellae. Scale bar indicates 10 μm.