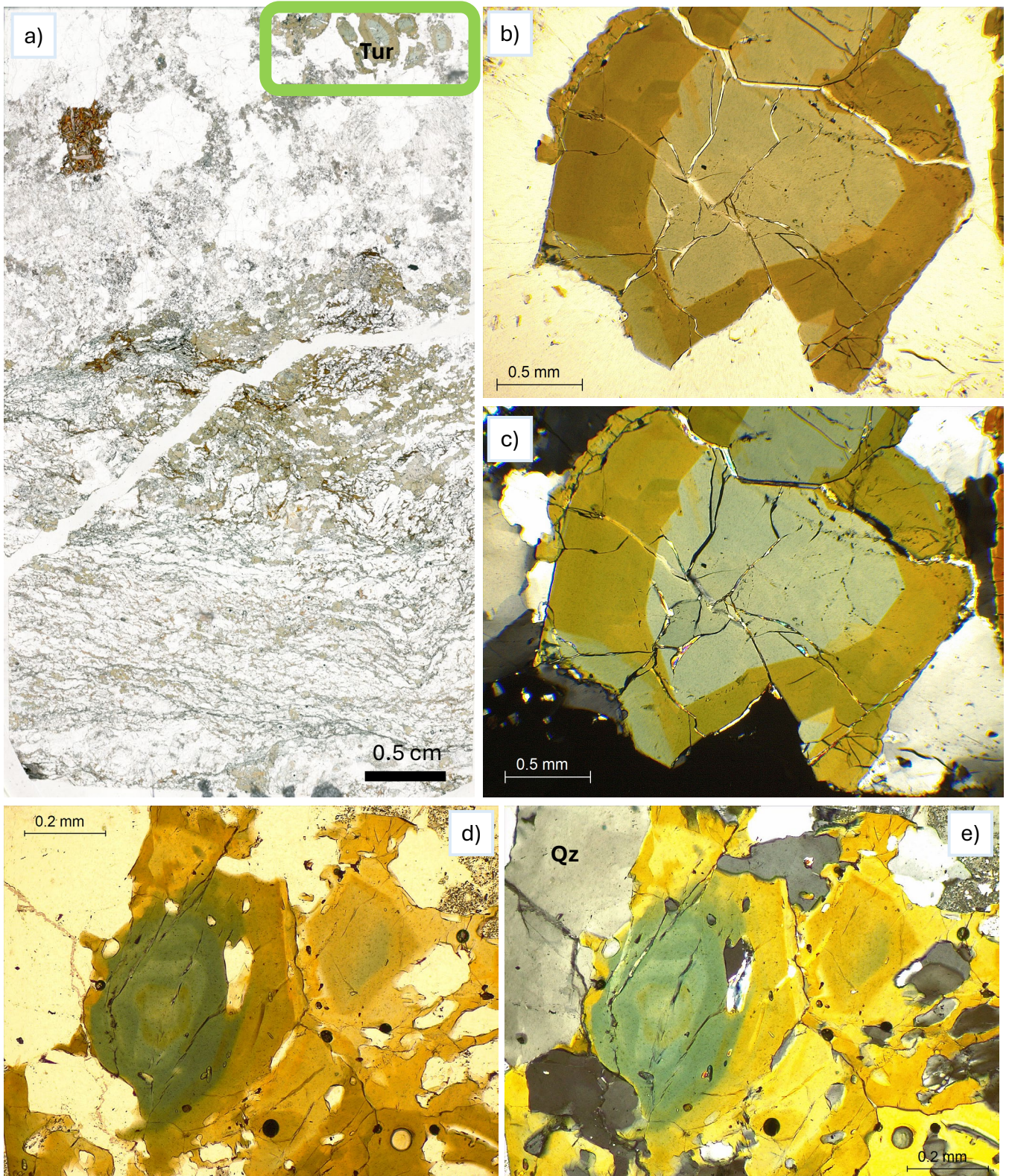
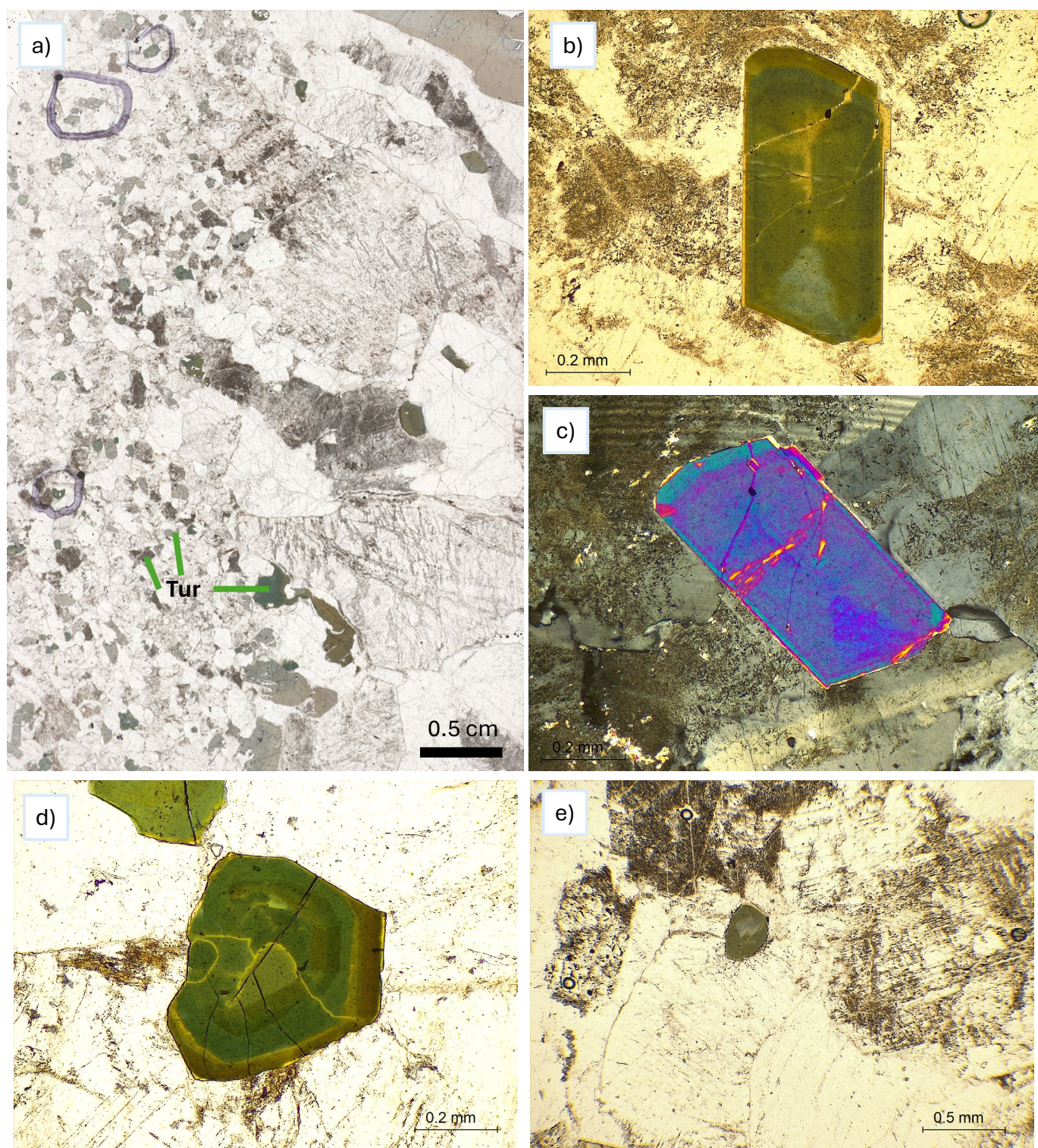
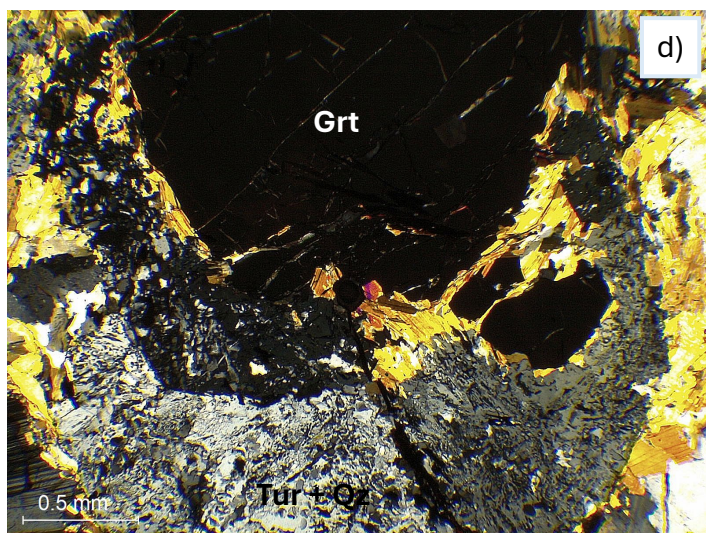
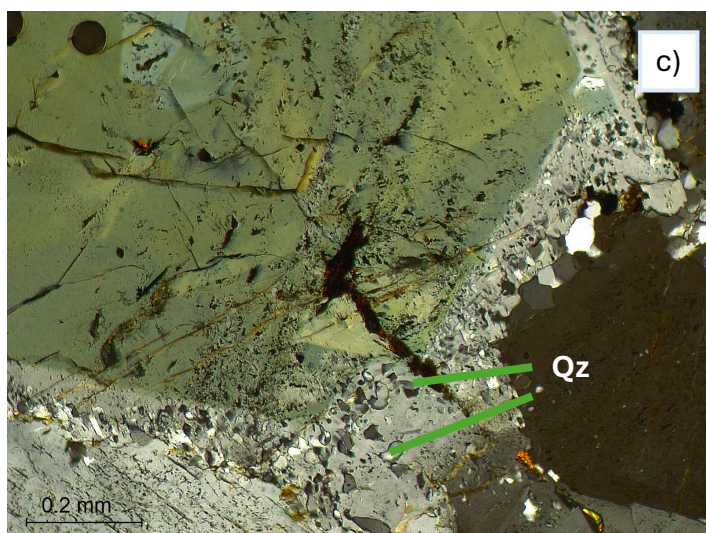
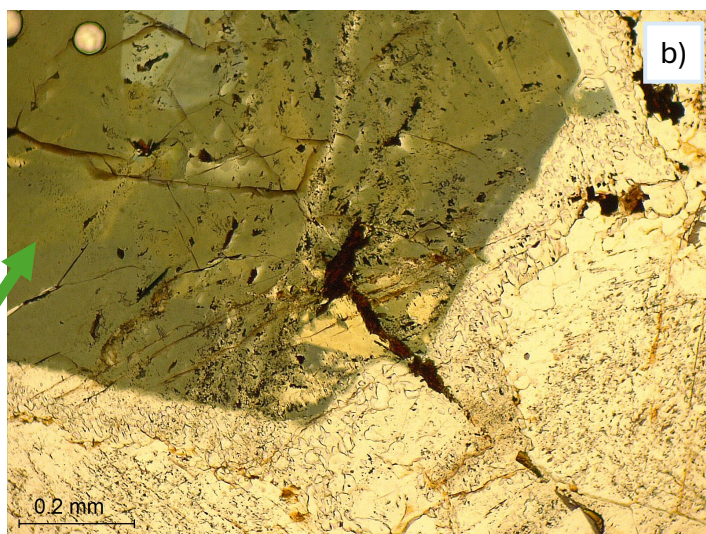
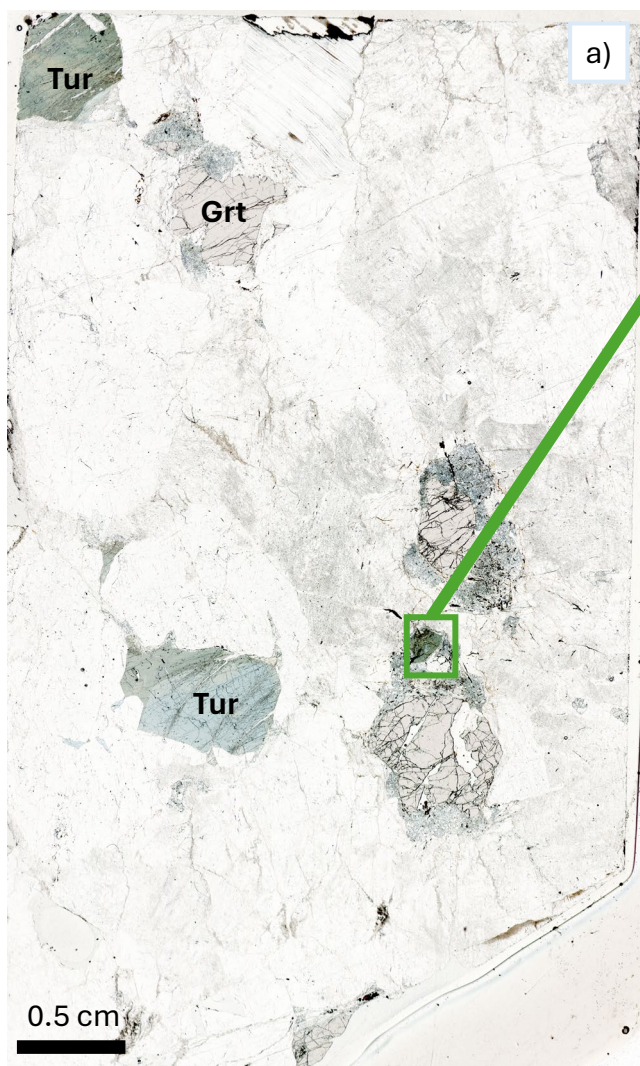




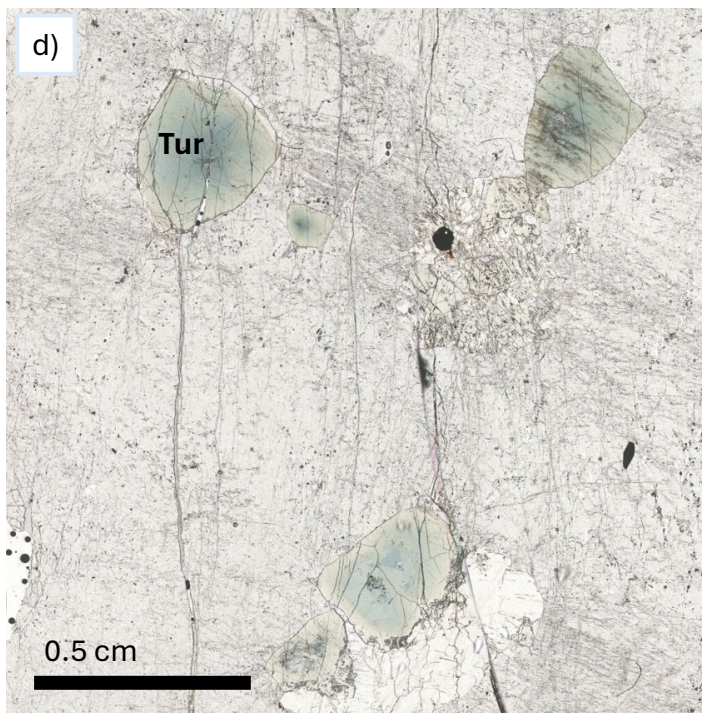
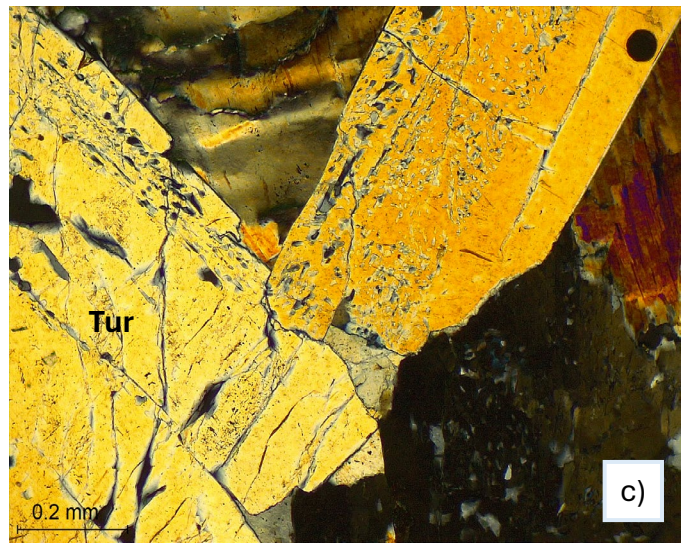
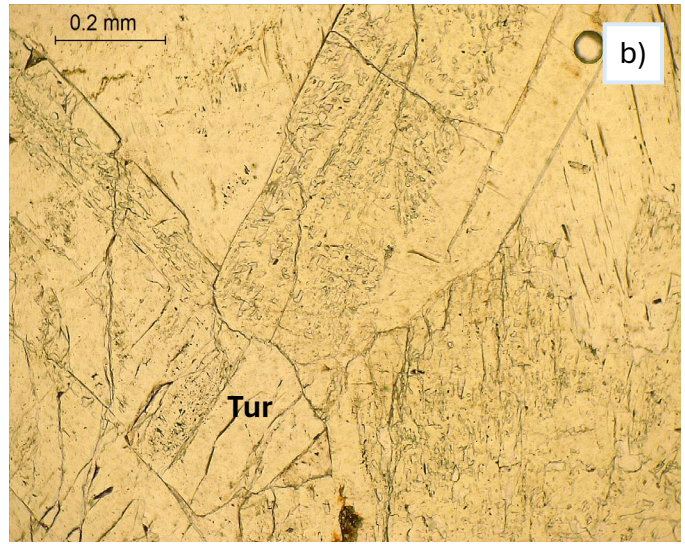
Appendix A.1 Thin section images of **border zone** tourmalines a) Thin section PFL7B plane-polarized light (PPL) scan, tourmalines circled in green. b) Zoomed in PPL image of tourmaline in PFL7B, c) Cross polarized light (XPL) image of tourmaline in PFL7B, d) Thin section P24B PPL tourmaline, e) XPL image of tourmaline in P24B. Tur = tourmaline, Qz = quartz.



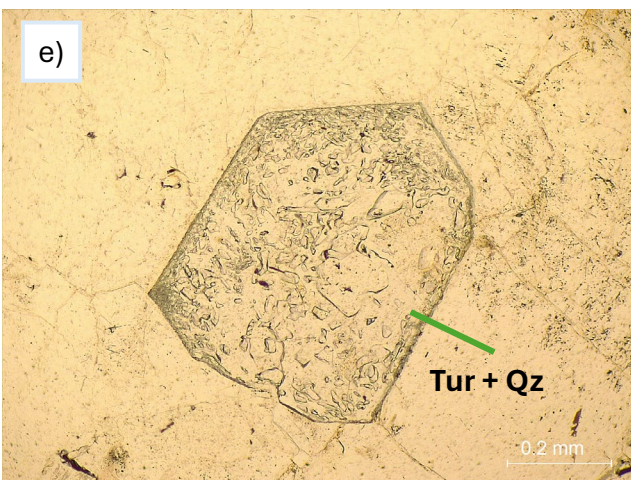
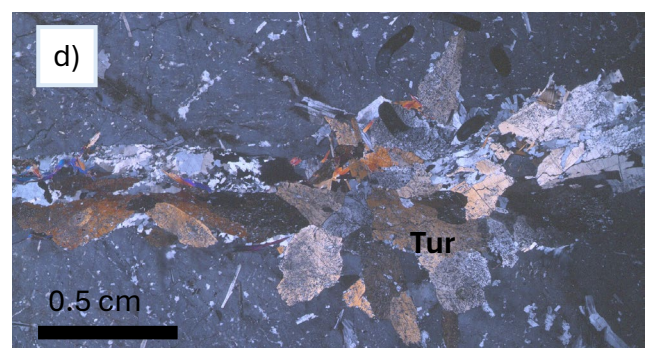
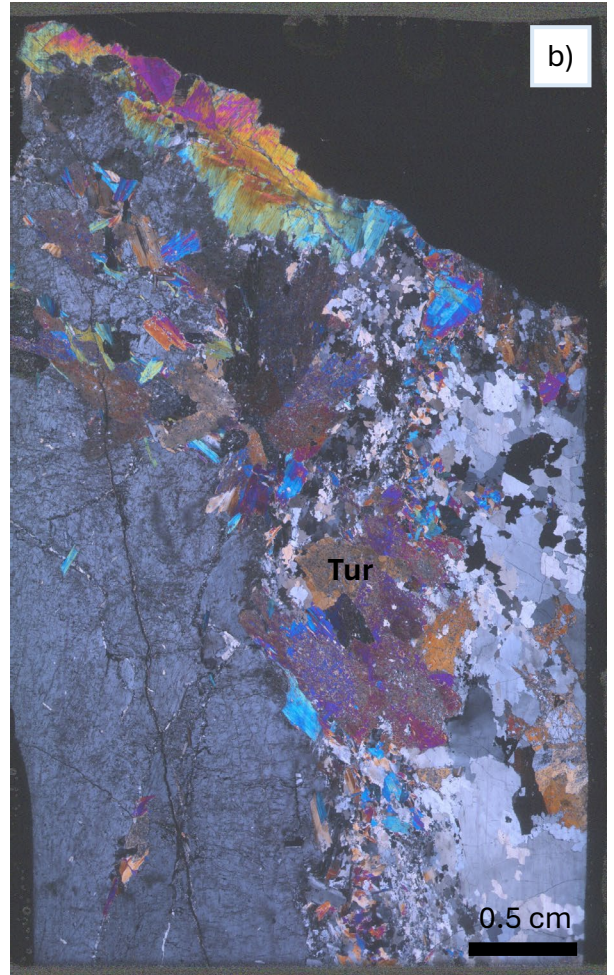
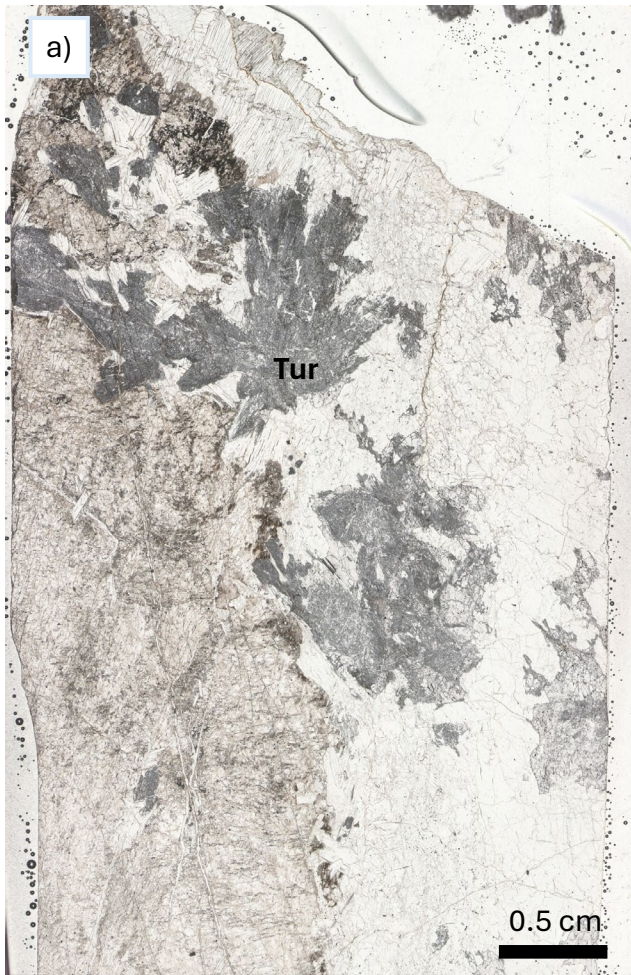
Appendix A.2 Thin section images of **intermediate zone, graphic subzone** tourmalines a) Thin section PFS1C in PPL, b) Tourmaline in PPL, thin section PFS1A, c) Tourmaline in XPL, thin section PFS1A, d) zoned tourmaline with clear elbaite rim, thin section PFS1A in PPL, e) tourmaline in PPL from thin section PFS1A.



Appendix A.3 Thin section images of intermediate zone, overgrowth subzone tourmalines a) Thin section PFG2A in PPL, Tur = tourmaline, Grt = garnet, Qz = quartz, b) Zoomed in PPL image of tourmaline from PFG2A showing magmatic green core and colourless metasomatic Tur + Qz intergrowth rim, c) XPL image of same tourmaline, d) XPL image of Grt surrounded by metasomatic mica and Tur + Qz .

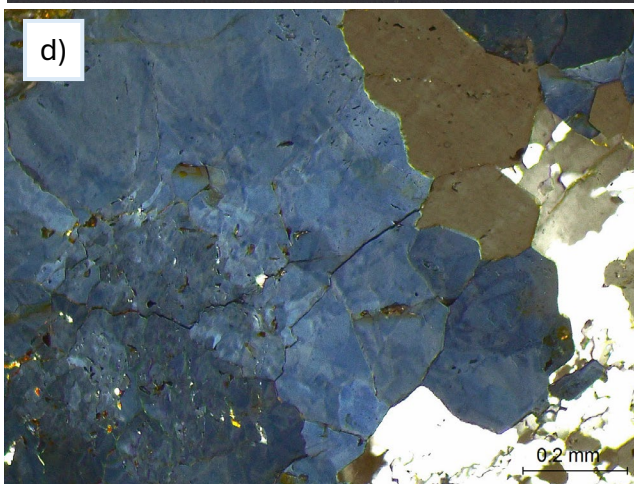
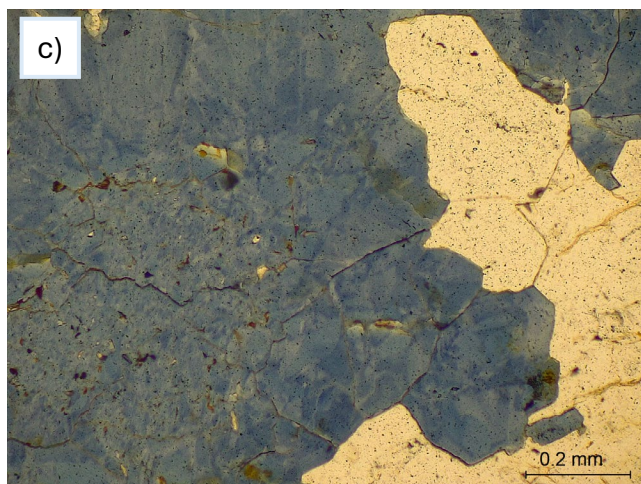


Appendix A.4 Thin section images of **central zone, distal tourmaline subzone** tourmalines a) Thin section PFL12A in PPL, b) Zoomed in PPL image of tourmaline from thin section PFL12A, c) XPL image of same tourmaline, d) PPL image of magmatic fluor-elbaite from distal tourmaline subzone from thin section P28C.



Appendix A.5 Thin section images of central zone, core subzone

tourmalines a) Thin section P24C PPL scan, b) XPL scan of P24C, c) scanned portion of thin section PFL10B in PPL, d) XPL scan of PFL10B, e) Zoomed PPL image of tourmaline with quartz inclusions from thin section PFL2A.



Appendix A.6 Thin section images of **quartz zone** tourmalines a) Thin section P34B PPL scan, b) XPL scan of thin section P34B, c) Zoomed in PPL image of tourmaline in P34B, d) XPL image of tourmaline in P34B.