

Appendix 1 - Plates

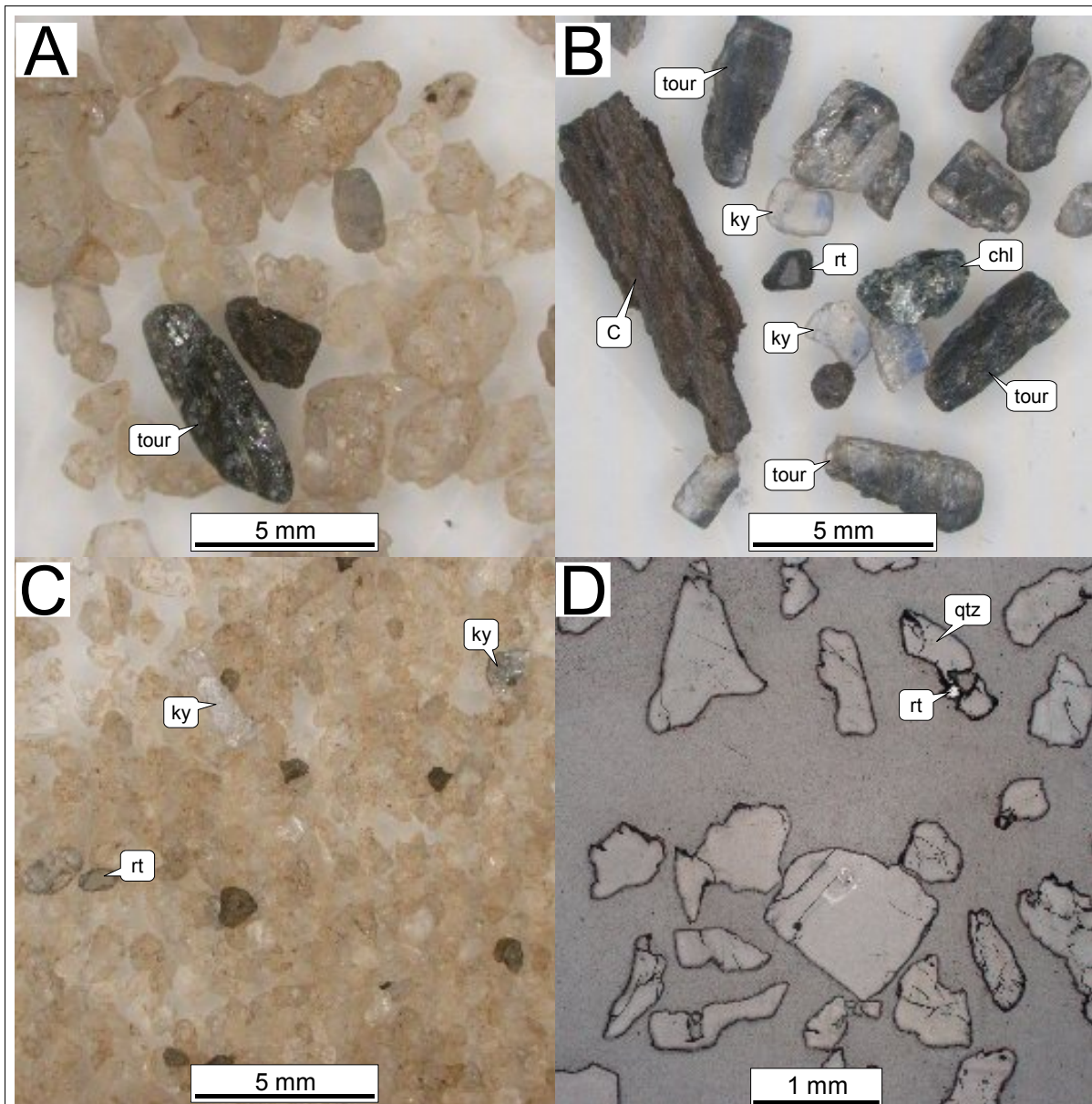


Plate 1 : Samples ZZ-CN/+1.0 & ZZ-CN/+500

- A Sample ZZ-CN/+1.0: general view under stereomicroscope
- B Sample ZZ-CN/+1.0: selected picked phases under stereomicroscope
- C Sample ZZ-CN/+500: general view of sample under stereomicroscope
- D Sample ZZ-CN/+500: view showing locked rare rutile

A, B, & C – Plane polarised oblique light
 D – Plane polarised reflected light

**Mineral abbreviations : C = organic phase · chl = chlorite group · ky = kyanite · qtz = quartz
 rt = rutile/pseudorutile · tour = tourmaline group**

Appendix 1 – Plates (continued)

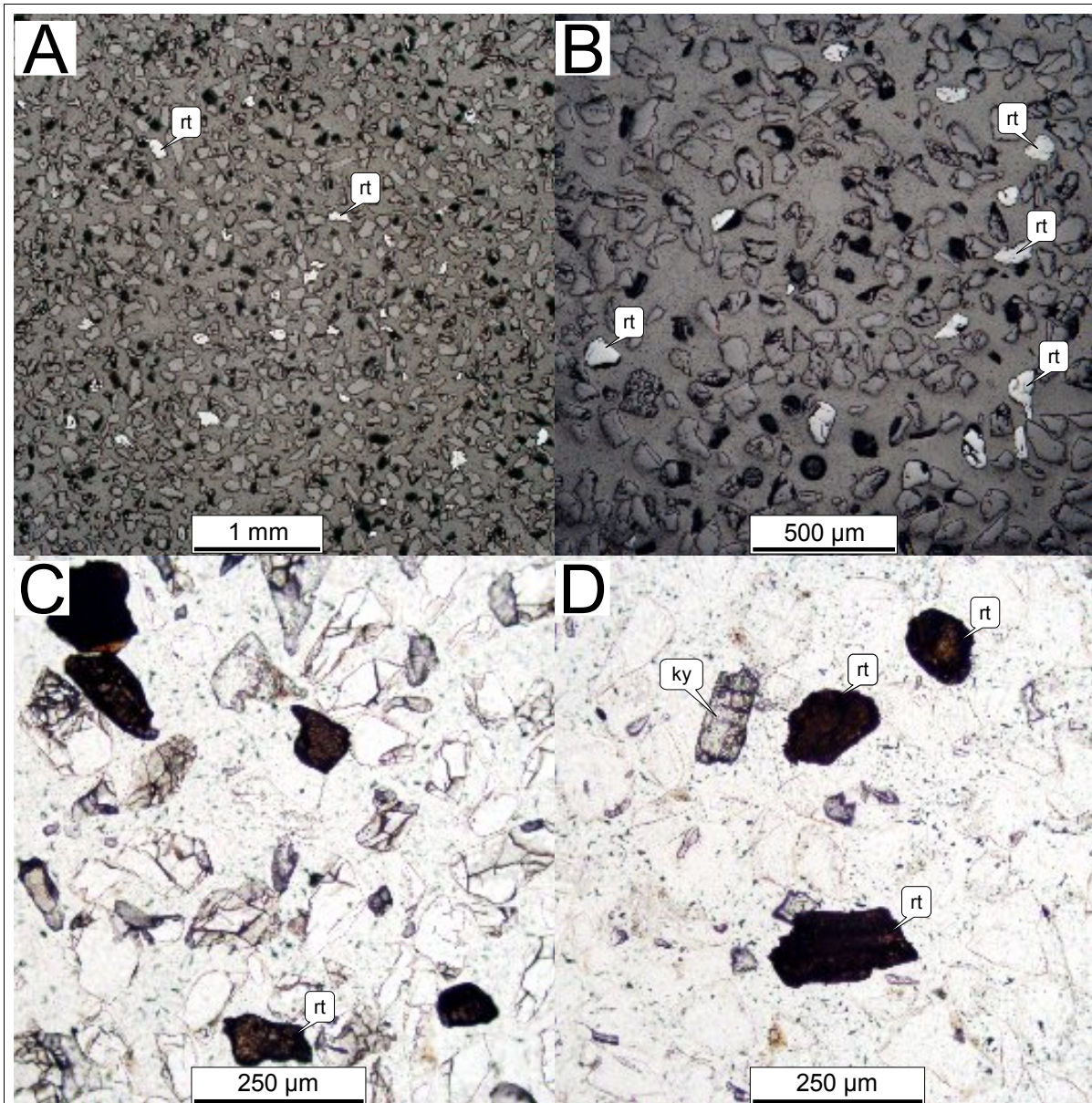


Plate 4 : Sample ZZ-CN/+75

- A, B & C Liberated rutile
- D Liberated rutile and kyanite

A & B – Plane polarised reflected light
C & D – Plane polarised transmitted light

Mineral abbreviations : ky = kyanite · rt = rutile/pseudorutile



Appendix 1 – Plates (continued)

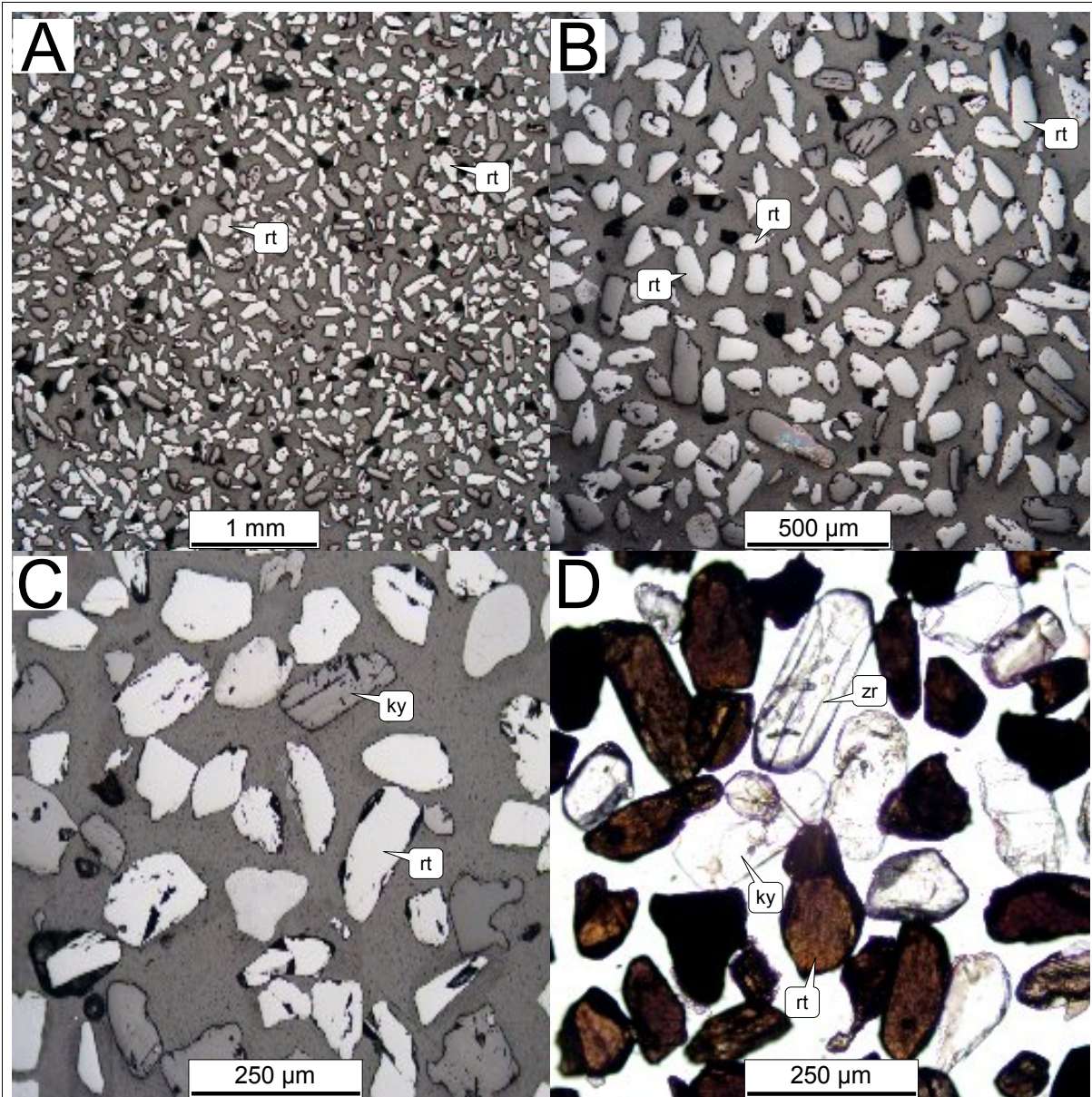


Plate 8 : Samples ZZ-CN/+75.C.S.NM + ZZ-CN/+75.C.S.PM (as combined prior to paramagnetics separation)

- A & B General views showing high degree of sample liberation
- C View showing rounding of mineral grains
- D Liberated zircon, rutile and kyanite

A , B, C & D – Plane polarised reflected light

Mineral abbreviations : ky = kyanite · rt = rutile/pseudorutile · zr = zircon

Appendix 1 – Plates (continued)

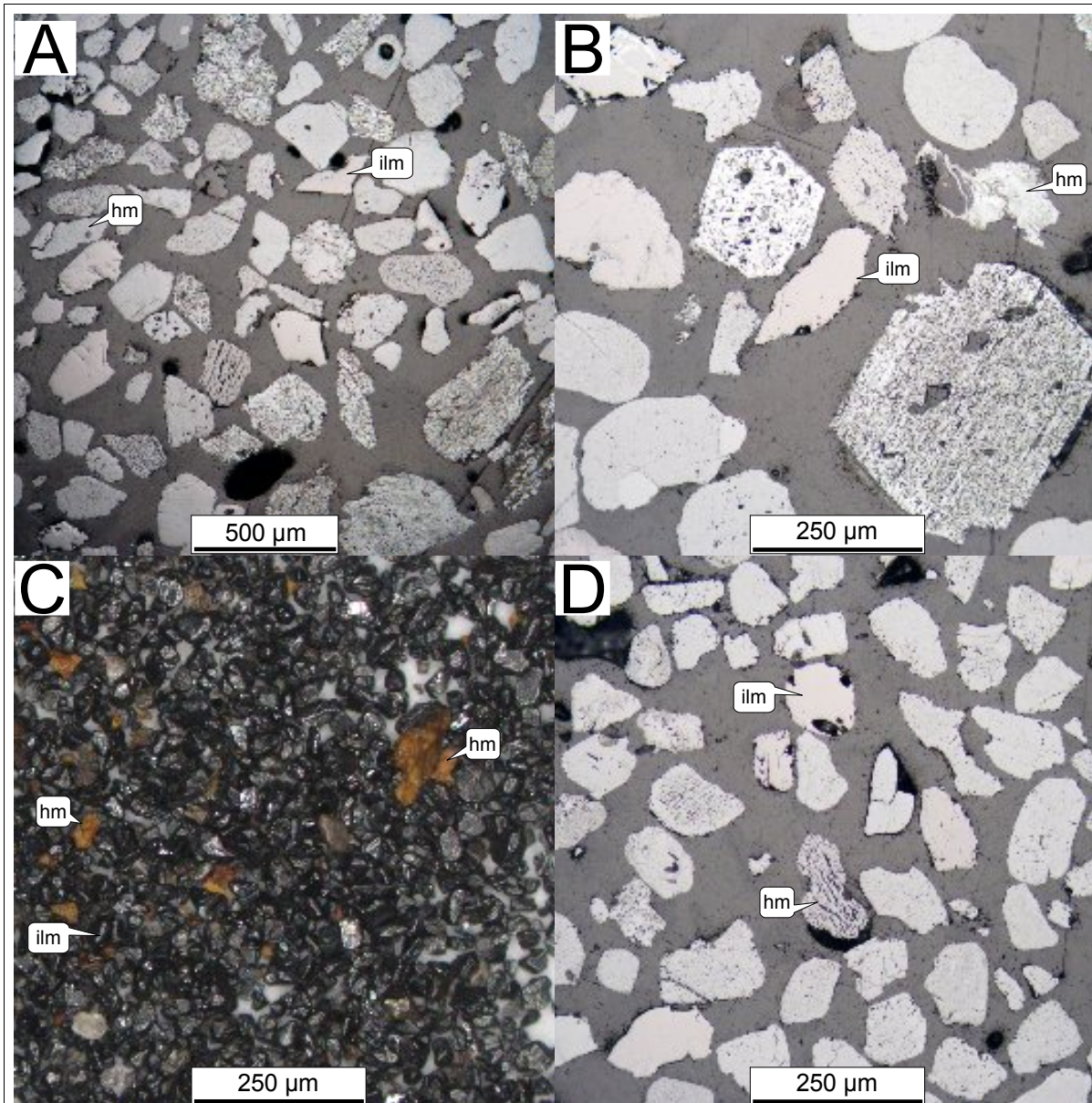


Plate 9 : Samples ZZ-CN/+125.C.S.M & ZZ-CN/+75.C.S.M (magnetic separation products)

- A & B Sample ZZ-CN/+125.C.S.M: Hematite and ilmenite showing high degree of liberation
- C & D Sample ZZ-CN/+75.C.S.M: Hematite and ilmenite showing high degree of liberation

A , B, C & D – Plane polarised reflected light

Mineral abbreviations : hm = hematite · ilm = ilmenite

