



Appendix Fig. 4. Discrimination diagram in terms of the first discriminant function (DP4-1) vs. log U (ppm), showing boundary between apatites from Kiruna- and breccia-type IOCG deposits (discrimination step IIIb; Table 5; App. Table 5). $DP4-1 = -5.379 \cdot \log V + 1.0285 \cdot \log Mn + 1.0004 \cdot \log Sr - 0.0447 \cdot \log Ce + 3.169 \cdot \log Eu - 5.412 \cdot \log Yb - 0.3302 \cdot \log Pb - 0.1080 \cdot \log Th + 5.385$; variables are log₁₀-equivalents of element concentrations in ppm.