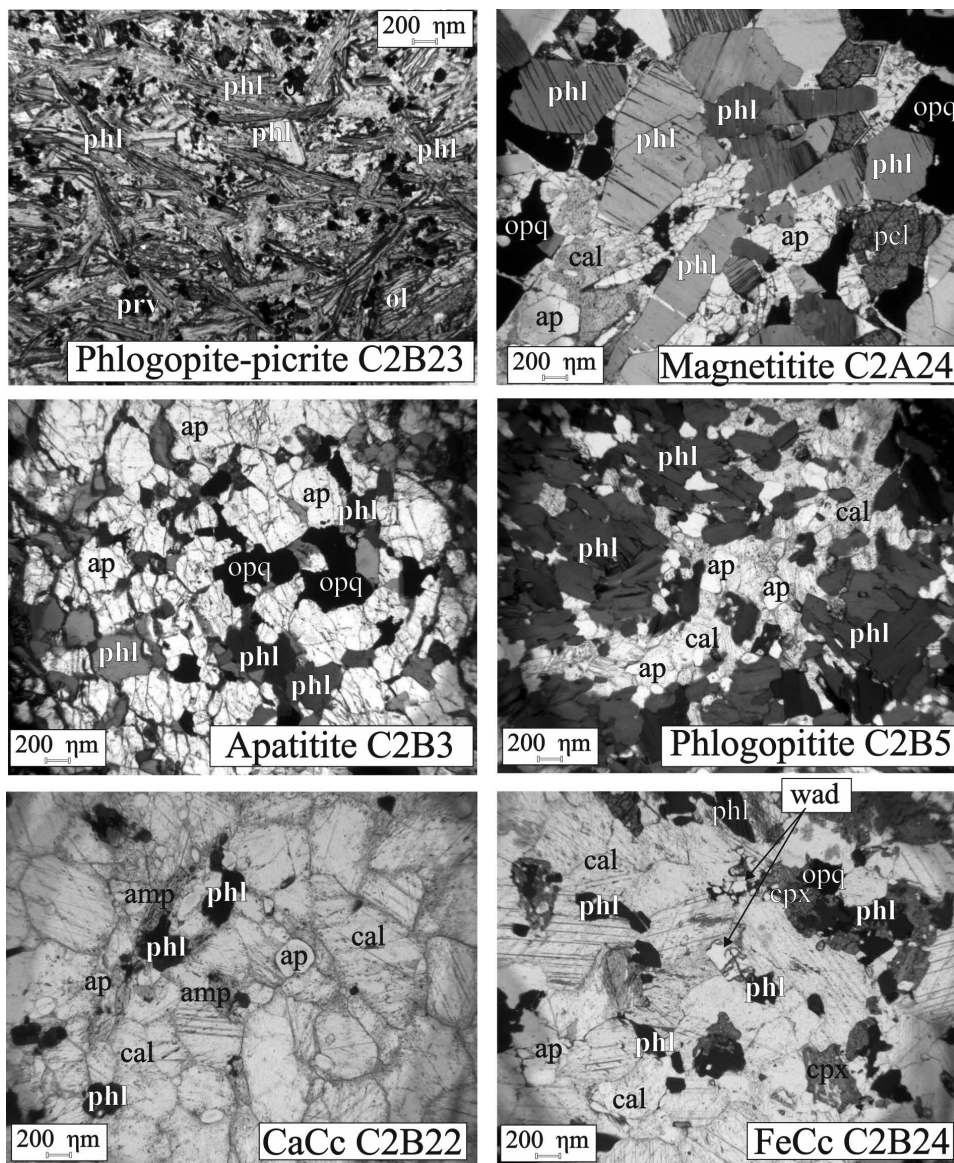
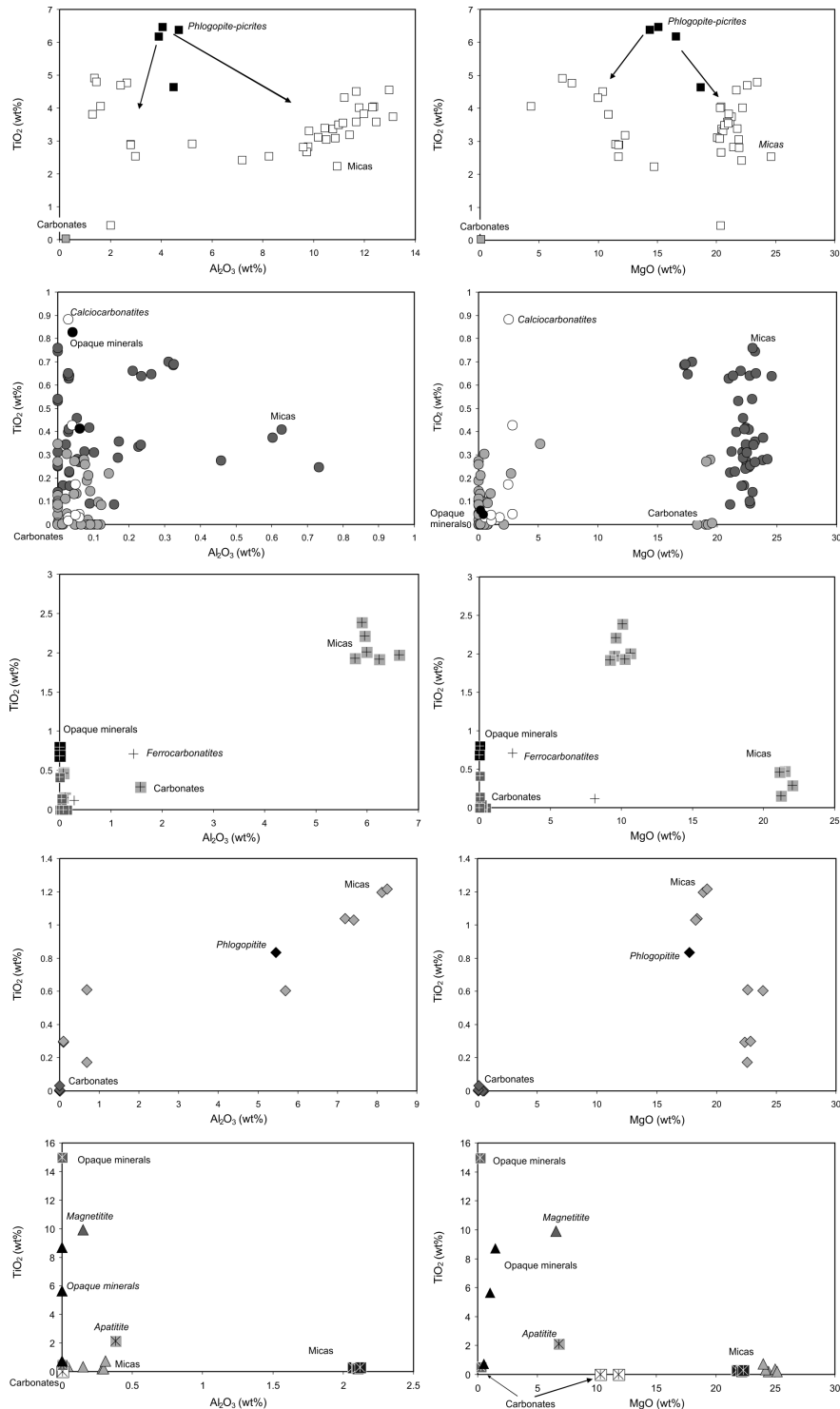


SUPPLEMENTAL FIGURE S1. Representative thin section photomicrographs of Catalão I rocks. Abbreviations: MgCc, magnesiocarbonatite; *phl*, phlogopite; *opq*, opaque mineral; *pcl*, pyrochlore; *ap*, apatite; *dol*, dolomite; *mgs*, magnesite (Whitney and Evans 2010).



SUPPLEMENTAL FIGURE S2. Representative thin section photomicrographs of Catalão II rocks. Abbreviations: CaCc, calcic carbonatite; FeCc, ferrocarnatite; amp, amphibole; ap, apatite; cal, calcite; cpx, clinopyroxene; opq, opaque mineral; pcl, pyrochlore; phl, phlogopite; prv, perovskite; wad, wadeite (Whitney and Evans 2010).



SUPPLEMENTAL FIGURE S3. Many TiO₂ vs. Al₂O₃ and TiO₂ vs. MgO (in wt%) diagrams, where each one compares mica compositions with their related host rocks. To comparison are reported also carbonates and opaque minerals (data taken from Guarino et al. 2017).