**Appendix A. Terms and Definitions**

***Crustal assimilation.*** Physical incorporation and/or melting of older crustal rock into new magma pulses resulting in a change of the chemical composition of the magma if the added material is compositionally different than the magma.

***Magmatic recycling.*** The process of removal of coeval crystal-rich or solid igneous rocks and their incorporation into younger pulses in the magmatic system.

***Magmatic Enclave.*** A blob of magma produced by mixing or mingling processes, regardless of whether it is of mafic or felsic composition.

***Cognate Inclusion.*** A fragment of early-crystallizing aggregates magmatically recycled into younger parts of the pluton.

***Xenolith.*** Inclusion, not related to the magmatic system that has broken off host rock and incorporated into a magma body.

***Xenocryst.*** Mineral acquired from host rocks (either plutonic or metamorphic) during ascent and emplacement of the magma that is considered unrelated to the magma system.

***Antecryst.*** Crystal from an earlier part of a magma system incorporated in a later pulse that may well share similar chemical or petrographic characteristics with in-situ grown crystals since they are genetically related