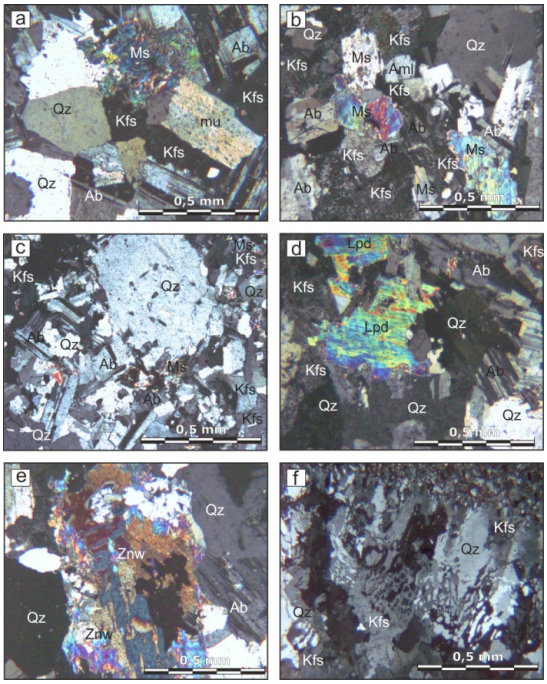



**Figure S5.** Microcline-albite granite of the Verkhne-Burgali ethmolith. (a) medium-grained granite of hypidiomorphic texture, (b) fine-grained allotriomorphic-grained granite, (c) phenocryst of quartz with albite microinclusions in a fine-grained granite porphyry with hypidiomorphic-granular quartz-albite groundmass, (d) lepidogranoblastic greisenized granite, (e) coarse-grained lepidogranoblastic quartz-zinnwaldite greisen, (f) quartz-microcline pegmatite. Crossed nicols. Qz – quartz, Ab – albite, Kfs – K-feldspar, Ms – muscovite, Lpd – mineral of the lepidolite series, Znw – mineral of the zinnwaldite series, and Aml – amblygonite.