ESM A1 - Lohmeier S, Lehmann B, Hodgkin A, Pašava J, Ackermann L, Šebek O, Andronikov A, Schneider A - Copper and molybdenum isotope signatures along a vertical section through the Valeriano epithermal-porphyry Cu-Au system, El Indio-Maricunga belt, northern Chile

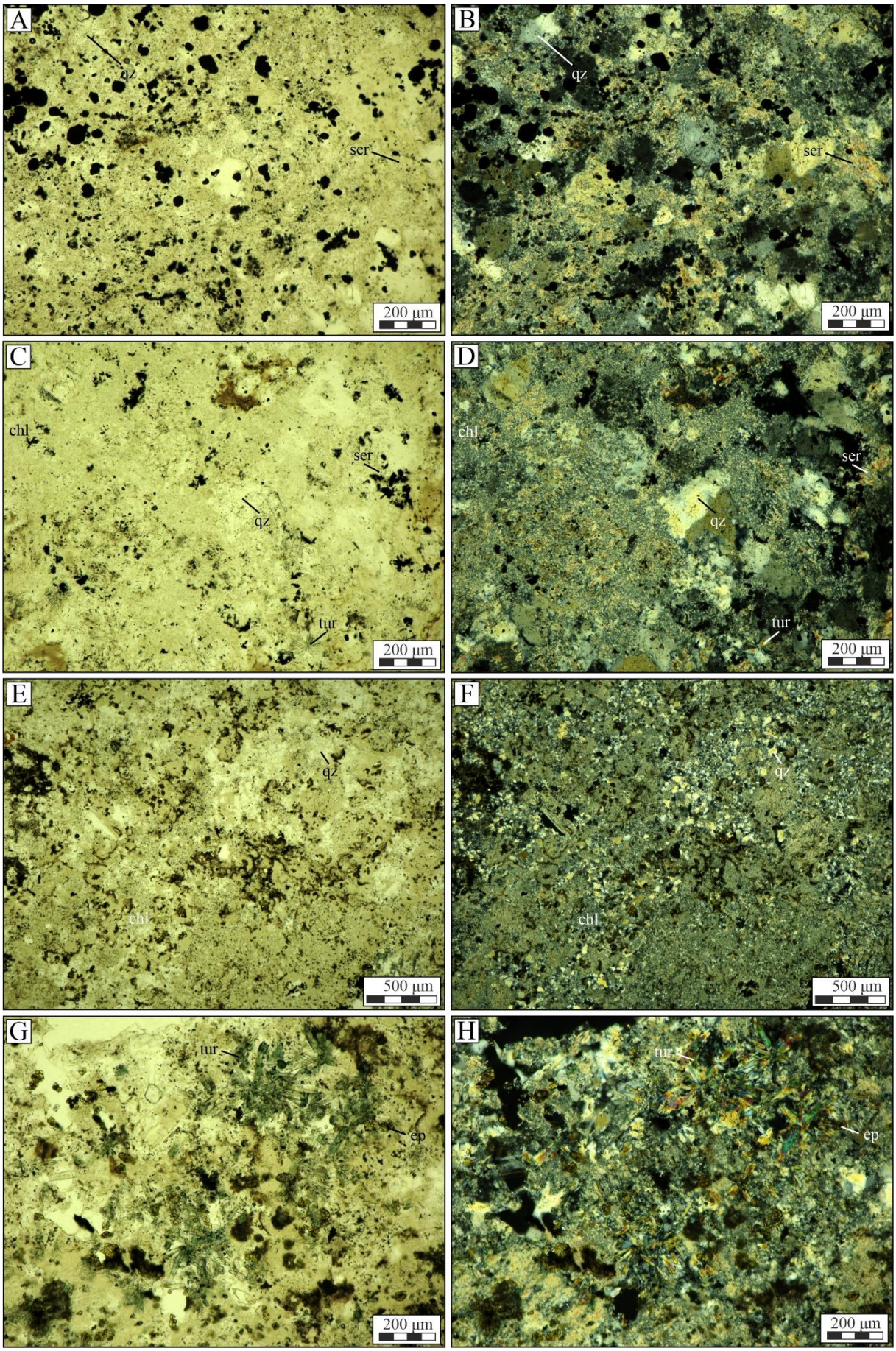

Fig. A1-1. **A**, **B**: Argillic alteration with subordinate phyllic alteration. Most primary magmatic minerals are replaced by clay minerals and minor sericite, only remains of quartz and opaque minerals (magnetite-hematite) are still distinguishable. **C**, **D**: Propylitic alteration with subordinate phyllic alteration and advanced argillic expressed by chlorite with minor sericite and tourmaline. **E-H**: Advanced argillic alteration with subordinate phyllic alteration (not shown here) and locally a subordinate propylitic alteration expressed by tourmaline, epidote, (sericite,) and locally chlorite. Largely only quartz is preserved. **A**, **B**: VALD12-10_107. **C**, **D**: VALD12-10_120. **E-H**: VALD13-14_16. Abbreviations: chl = chlorite; ep = epidote; qz = quartz, ser = sericite; tur = tourmaline.

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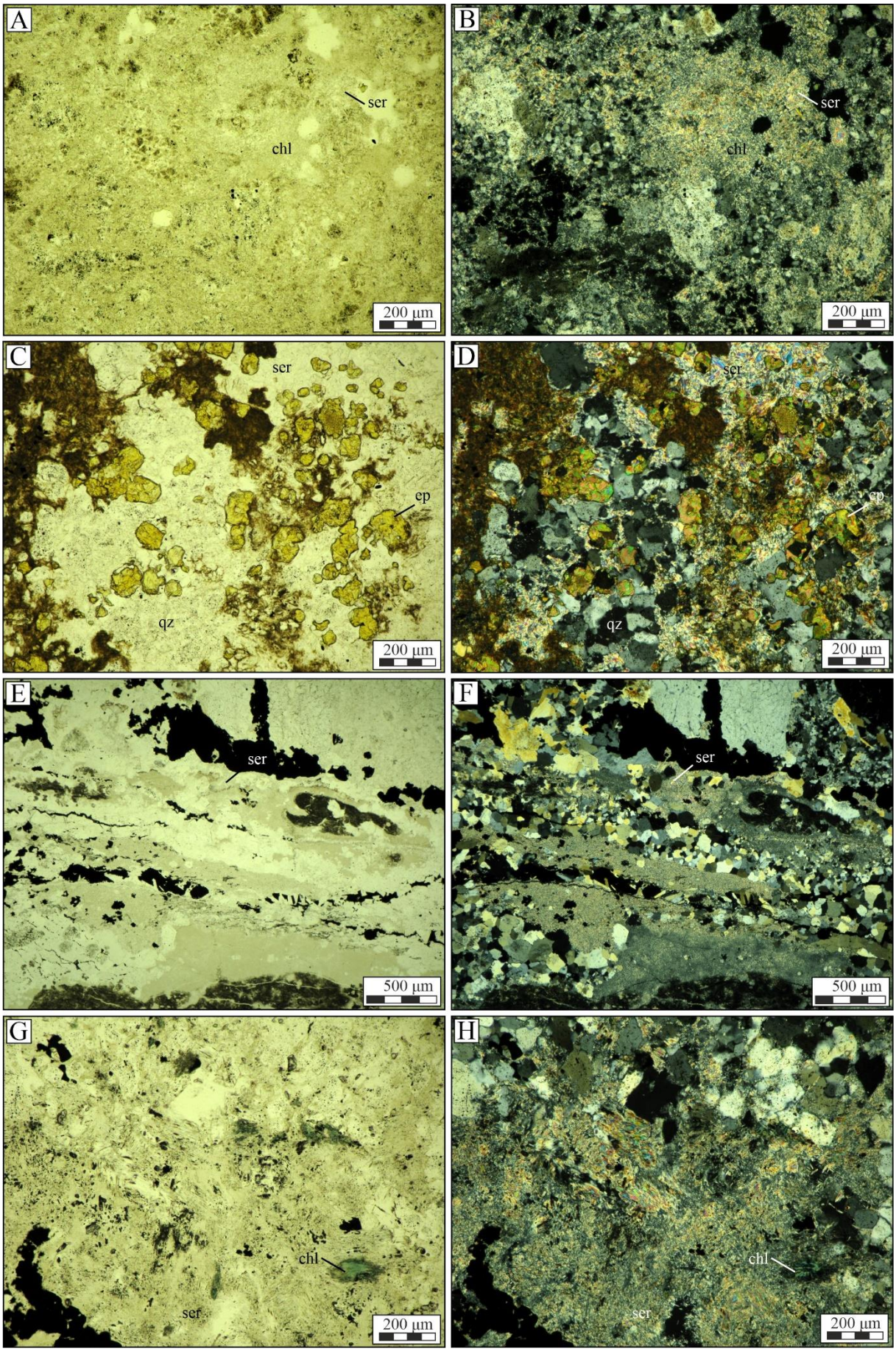

Fig. A1-2. **A**-**D**: Advanced argillic alteration with subordinate phyllic alteration (not shown here) and locally a subordinate propylitic alteration expressed by (tourmaline,) epidote, sericite, and locally chlorite. Largely only quartz is preserved. **E**, **F**: Phyllic alteration expressed by sericite. **G**, **H**: Phyllic alteration with subordinate propylitic alteration expressed by sericite and chlorite. **A**, **B**: VALDD13-14_67. **C**, **D**: VALD13-14_143. **E**, **F**: VALD13-14_390. **G**, **H**: VALD13-14_420. Abbreviations: chl = chlorite; ep = epidote; qz = quartz; ser = sericite.

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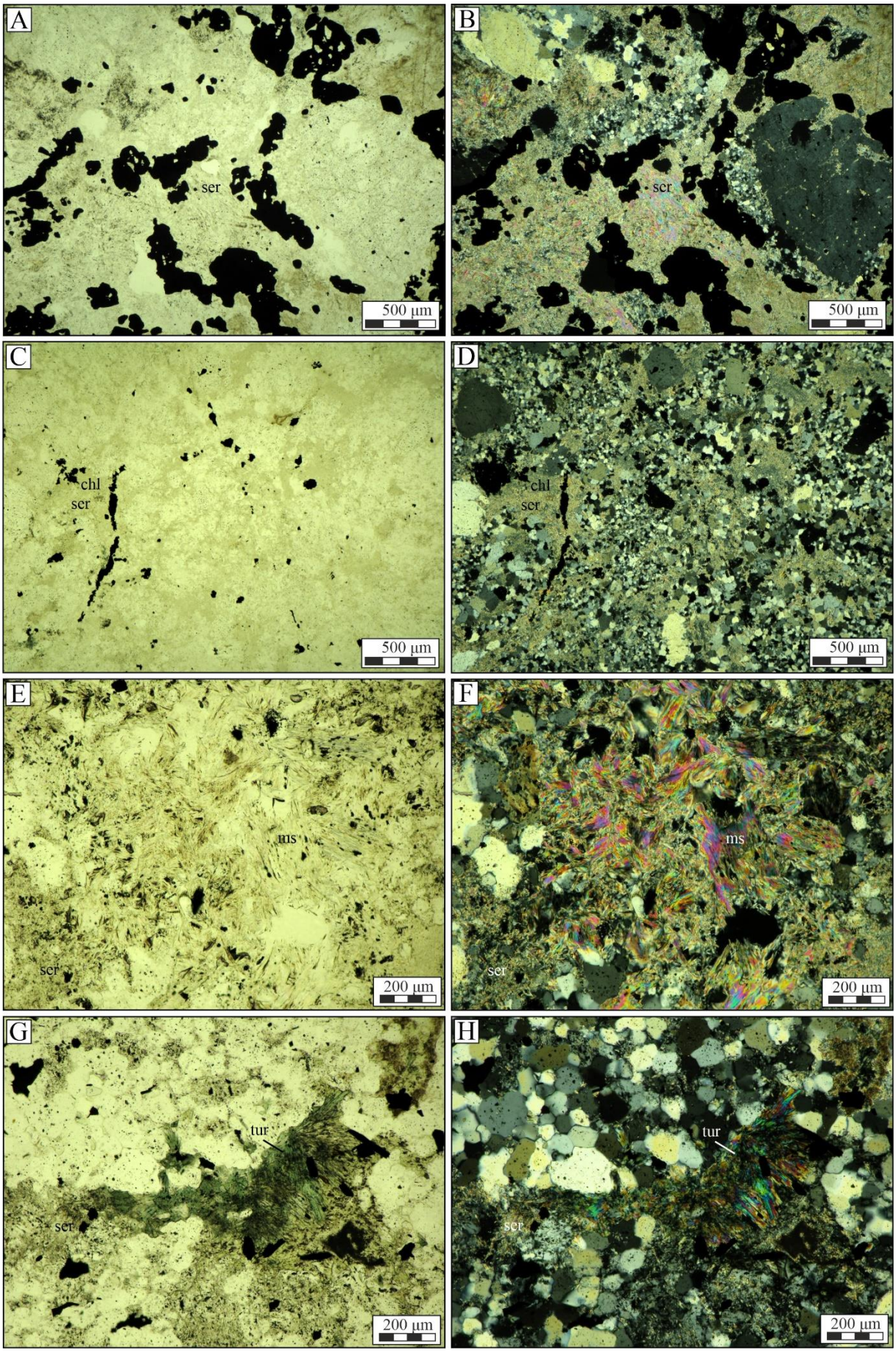

Fig. A1-3. **A**, **B**: Phyllic alteration expressed by sericite. **C**, **D**: Phyllic alteration with subordinate propylitic alteration expressed by sericite and chlorite. **E**, **F**: Phyllic alteration expressed by sericite and muscovite. **G**, **H**: Phyllic alteration with subordinate advanced argillic alteration expressed by sericite and tourmaline. **A**, **B**: VALDD13-14_538. **C**, **D**: VALD13-14_687. **E**, **F**: VALD13-14_913. **G**, **H**: VALD13-14_1143. Abbreviations: chl = chlorite; ms = muscovite; ser = sericite; tur = tourmaline.

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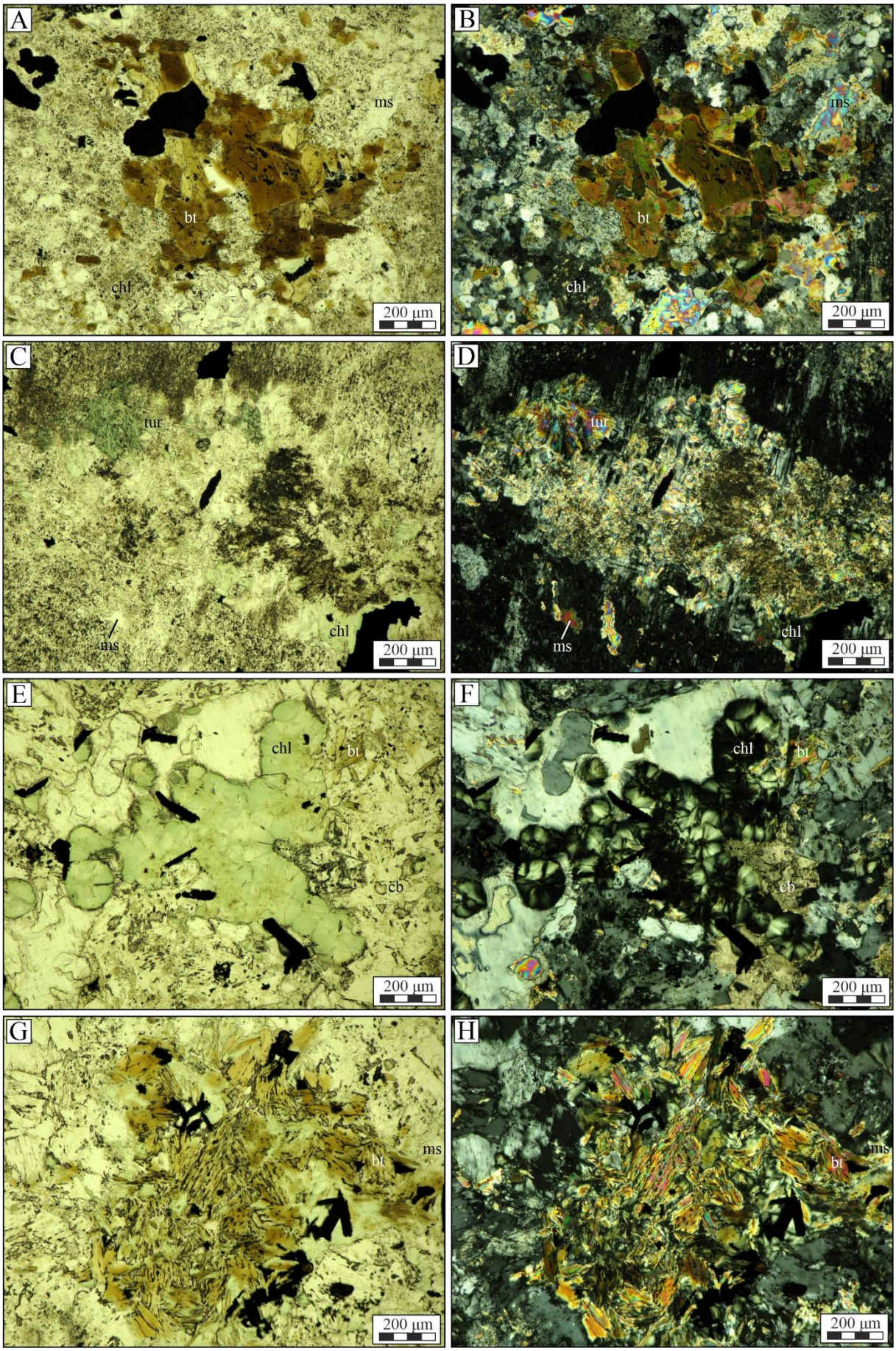

Fig. A1-4. **A**, **B**: Potassic alterations with subordinate phyllic and propylitic alterations expressed by biotite, muscovite and chlorite. **C**, **D**: Potassic alterations with subordinate phyllic, propylitic and advanced argillic alterations expressed by (biotite,) muscovite, chlorite, and tourmaline. **E**-**H**: Potassic alterations with subordinate phyllic and propylitic alteration expressed by biotite, carbonate, muscovite and chlorite. **A**, **B**: VALDD13-14_1182. **C**, **D**: VALD13-14_1229. **E**-**H**: VALD13-14_1293. Abbreviations: bt = biotite; cb = carbonate; chl = chlorite; ms = muscovite

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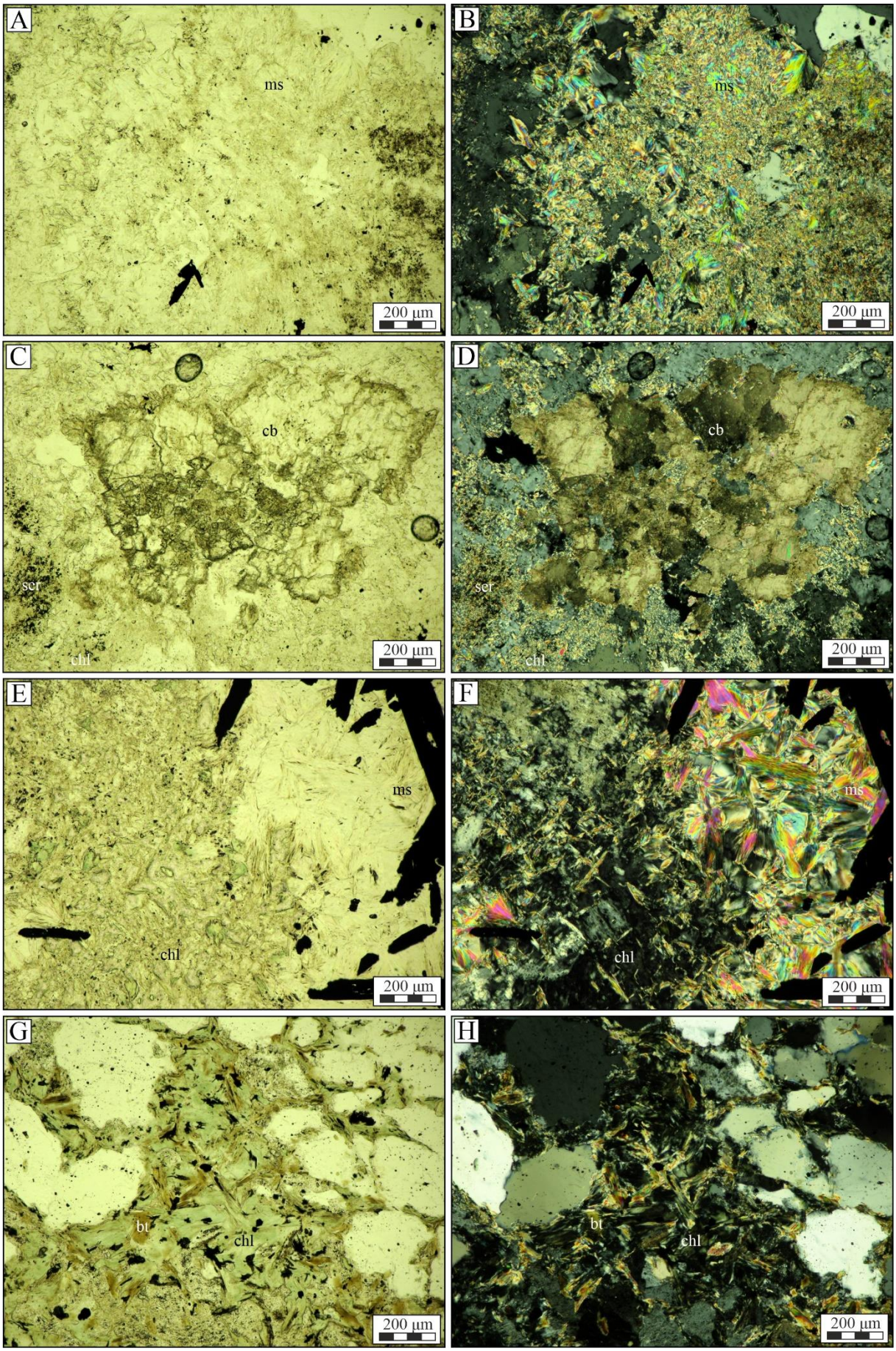

Fig. A1-5. **A-D**: Phyllic alteration with subordinate propylitic alteration expressed by muscovite/sericite, carbonate, and chlorite. **E-H**: Potassic alteration with subordinate phyllic and propylitic alteration expressed by biotite, muscovite, and chlorite. **A-D**: VALDD13-14_1360. **E-H**: VALD13-14_1676. Abbreviations: cb = carbonate; ms = muscovite; ser = sericite.