**Figure captions (supplementary data)**

**Figure A1**. Location of Dar-Alu copper deposit and drill hole configuration

**Figure A2**. Histograms of A) copper, B) molybdenum, C) silver, D) lead and E) zinc grades

**Figure A3**. Histograms and scatter plots of transformed (Gaussian) variables

**Figure A4**. Correlation coefficients between Gaussian fields associated with lead and zinc grades, simulated with turning bands (A), sequential co-simulation with full cokriging (B) and sequential co-simulation with collocated cokriging (C). The average correlation is represented with a red line, while the true data correlation is represented with a blue line.

**Figure A5**. Cross variograms of Gaussian fields associated with lead and zinc grades, simulated with turning bands (A), sequential co-simulation with full cokriging (B) and sequential co-simulation with collocated cokriging (C).