

Wolfgang Maier 26.2.2010

1. Explain the formation of the Ahmavaara deposit, Finland.
2. Summarize the stratigraphy of the Bushveld Complex, including the main rock types within individual stratigraphic units, and approximate thickness of the main units.
3. At what stratigraphic levels in layered intrusions do PGE reefs occur? Give examples for each type.
4. Explain the formation of PGE mineralization of the type occurring in the UG2 chromitite of the Bushveld Complex.
5. Schematically draw the Sr isotopic stratigraphy of the Bushveld complex and explain the origin of the variation, using sketch diagrams (eg an isotopic growth curve).
6. Where is the Siika Käme reef? present a model for its origin.

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1. Name 5 PGE mineralized layered intrusions, each from different country. Put them in order of intrusion size, and importance of the PGE deposit
2. Summarize the stratigraphy of the Bushveld Complex, including the main rock types within individual stratigraphic units, and approximate thickness of the main units
3. At what stratigraphic levels in layered intrusions do PGE reefs occur? Give examples for each type.
4. Explain the formation of PGE mineralization of the type occurring in the Platreef of the Bushveld Complex or the Ahmavaara deposit of the Suhanko intrusion, Finland.
5. Where is the Sompujärvi reef? Present a model for its origin.