

Appendix A. Supplementary data

The following are the Supplementary data to this article:

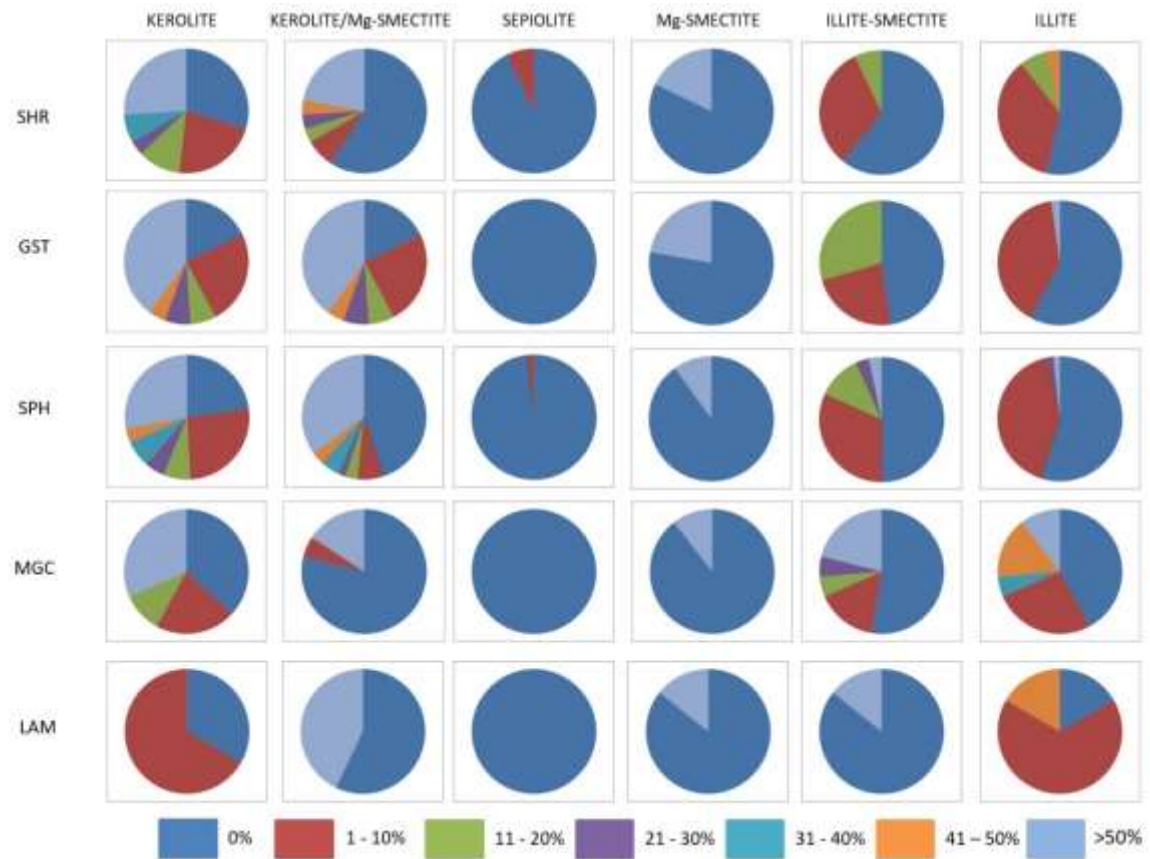


Figure A1 – Clay mineral composition per facies (SHR= fascicular calcite crusts, GST= intraclastic grainstones, SPH= Mg-claystones with high spherulite content, MGC= Mg-claystones with low spherulite content, LAM= laminites).

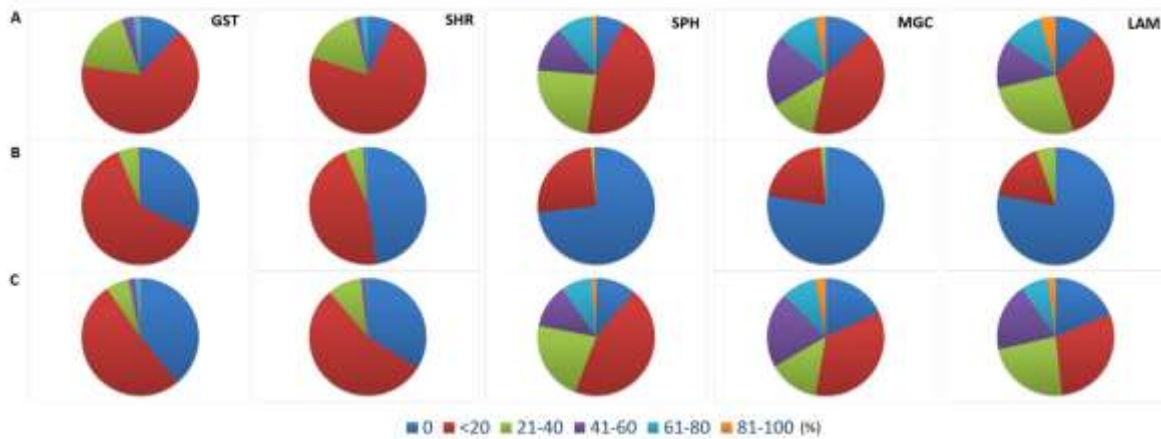


Figure A2 – A) Proportions of dolomite associated with the main facies of Barra Velha Formation in the study area (GST= intraclastic grainstones, SHR= fascicular calcite crusts, SPH= Mg-claystones with high spherulite content, MGC= Mg-claystones with low spherulite content, LAM= laminites). B) Proportions of dolomite as pore-filling cement. C) Proportions of dolomite as replacement phase.

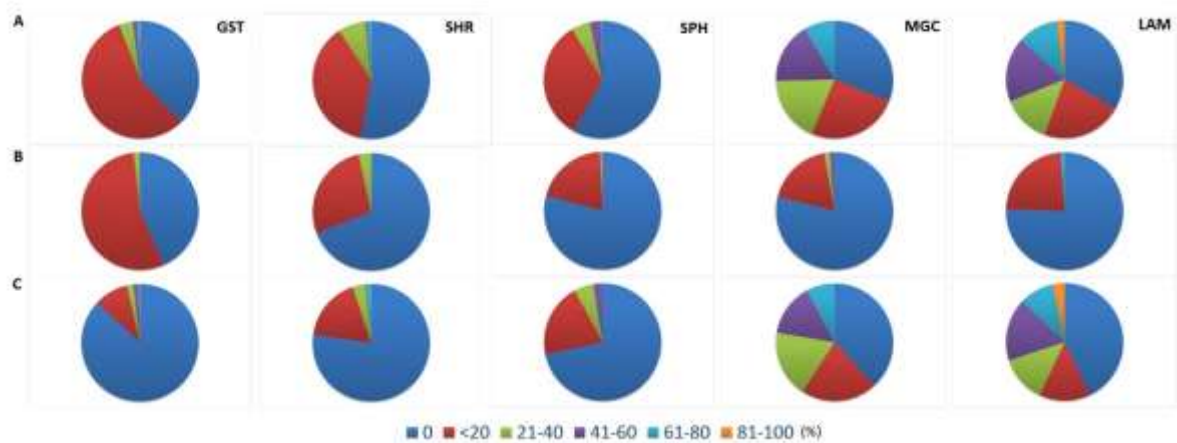


Figure A3 – A) Proportions of calcite associated with the main facies of Barra Velha Formation in the study area (GST= intraclastic grainstones, SHR= fascicular calcite crusts, SPH= Mg-claystones with high spherulite content, MGC= Mg-claystones with low spherulite content, LAM= laminites). B) Proportions of calcite as pore-filling cement. C) Proportions of calcite as replacement phase.

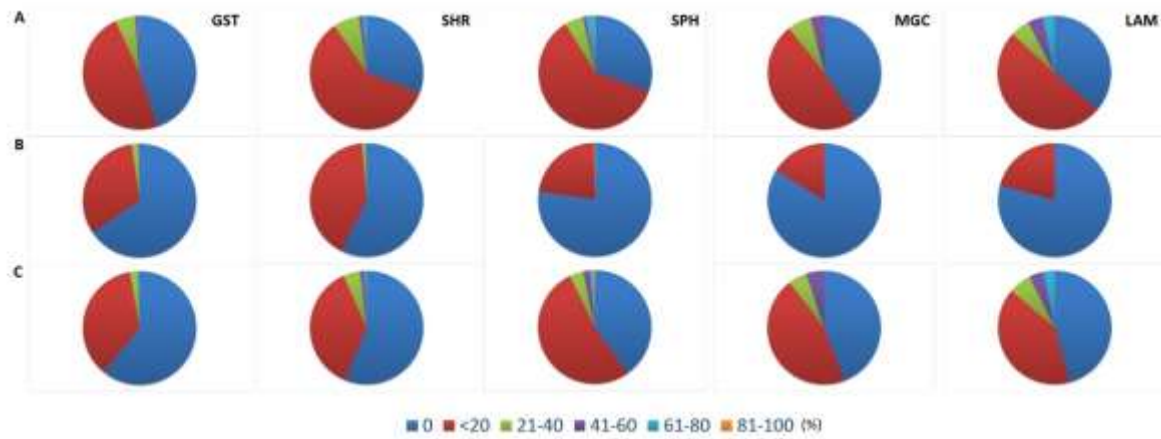


Figure A4 – A) Proportions of quartz associated with the main facies of Barra Velha Formation in the study area (GST= intraclastic grainstones, SHR= fascicular calcite crusts, SPH= Mg-claystones with high spherulite content, MGC= Mg-claystones with low spherulite content, LAM= laminites) B) Proportions of quartz as pore-filling cement. C) Proportions of quartz as replacement phase.