

Figures

Figure 2: Change in core aspect resulting from the use of water-based mud (EST204) versus oil-based mud (EST 205). Photos taken 10 month after sampling.



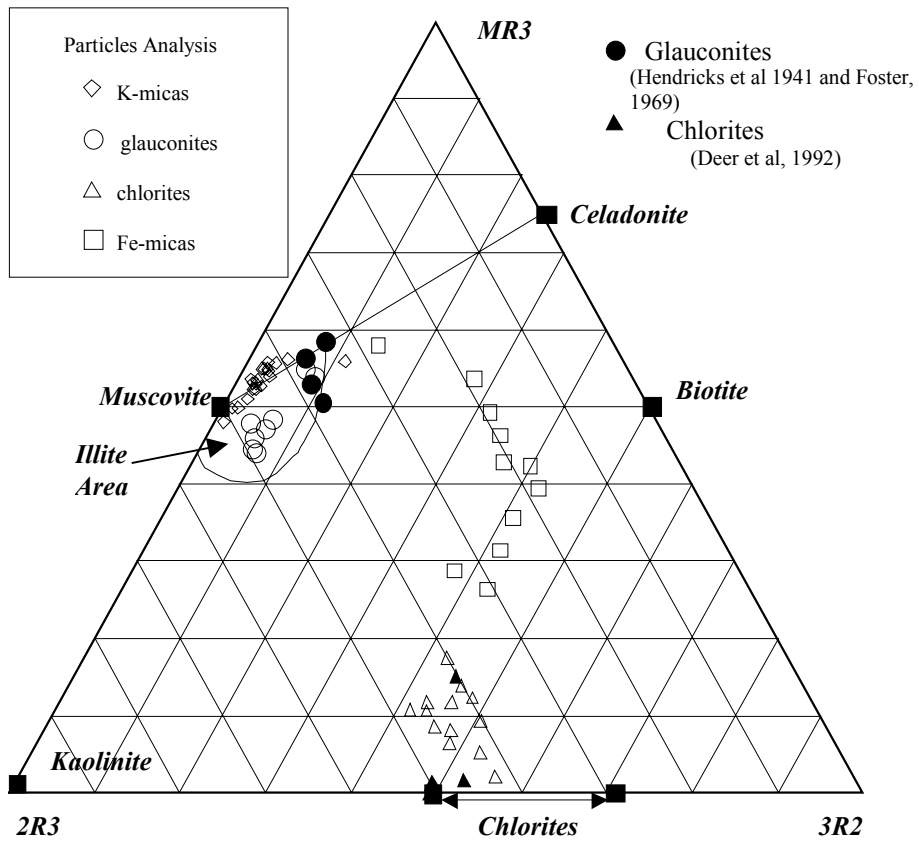


Figure 3: Projection of the phyllosilicate composition analysed by SEM in the system $MR^{3+}-2R^{3+}-3R^{2+}$ (Velde, 1985) : $M^+ = K^+ + Na^+ + 2Ca^{2+}$; $MR^3 = M^+ - Al^{3+}$; $2R^3 = [(Al^{3+} + Fe^{3+}) - M^+]/2$; $3R^2 = [Fe^{2+} + Mg^{2+} + Mn^{2+}]/3$.

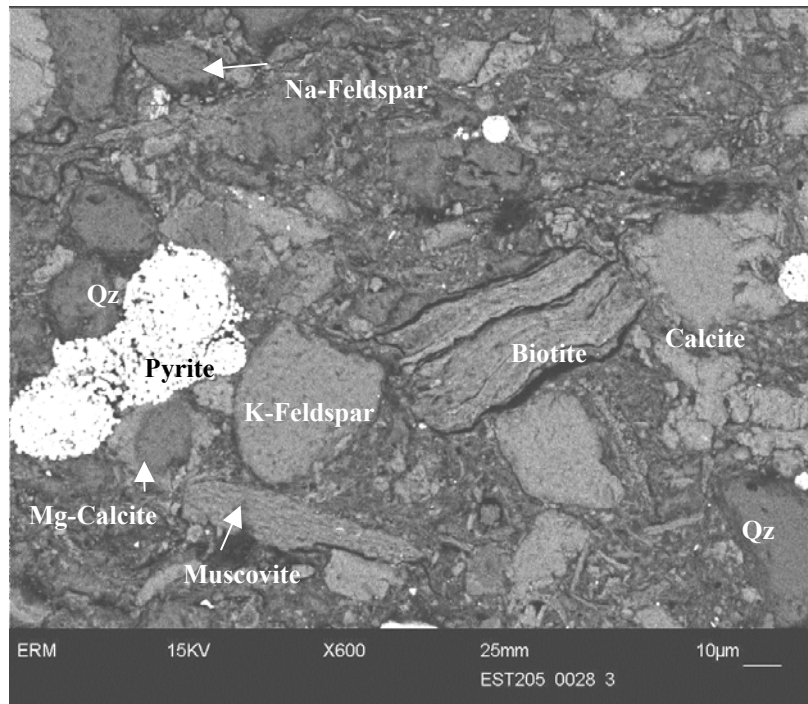


Figure 4: Scanning Electron Micrograph. Sample EST 05460 (429.6 m). Matrix of clays with detrital minerals and pyrite framboïds.

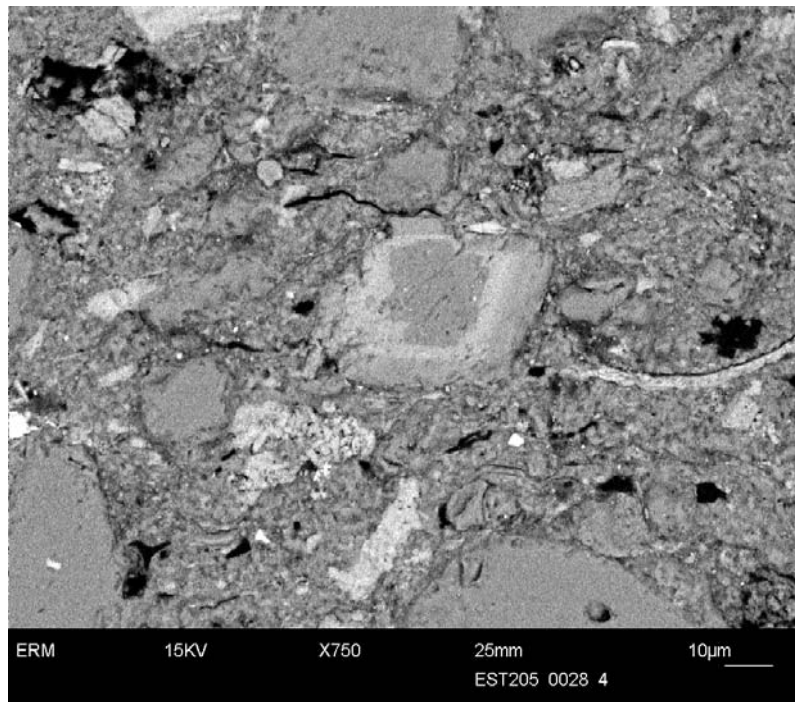


Figure 5: Scanning Electron Micrograph. Sample EST 05474 (432.4 m). Mg-calcite with a variable composition from the centre to the border.

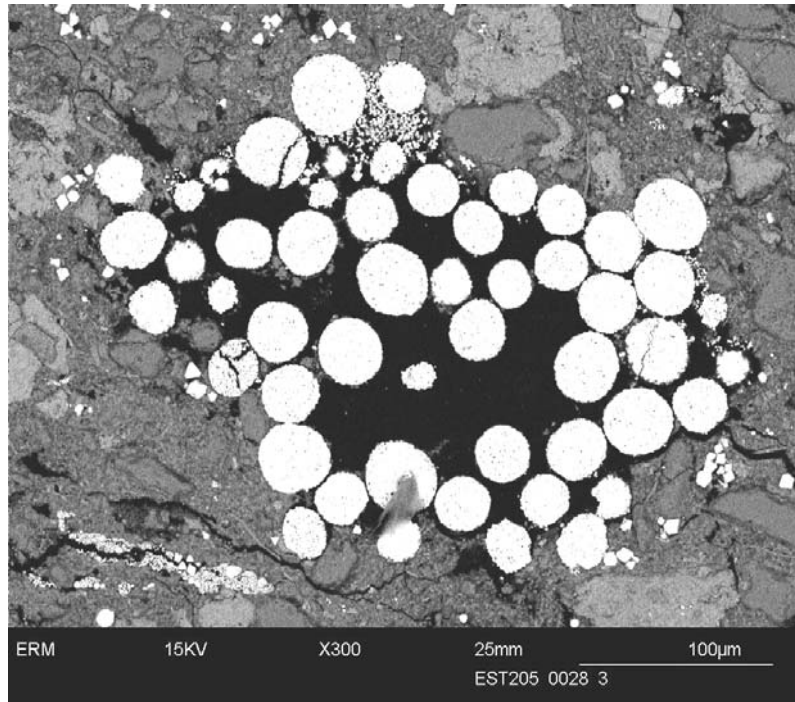


Figure 6: Scanning Electron Micrograph. Sample EST 05505 (442 m). Pyritosphere with organic matter (black).

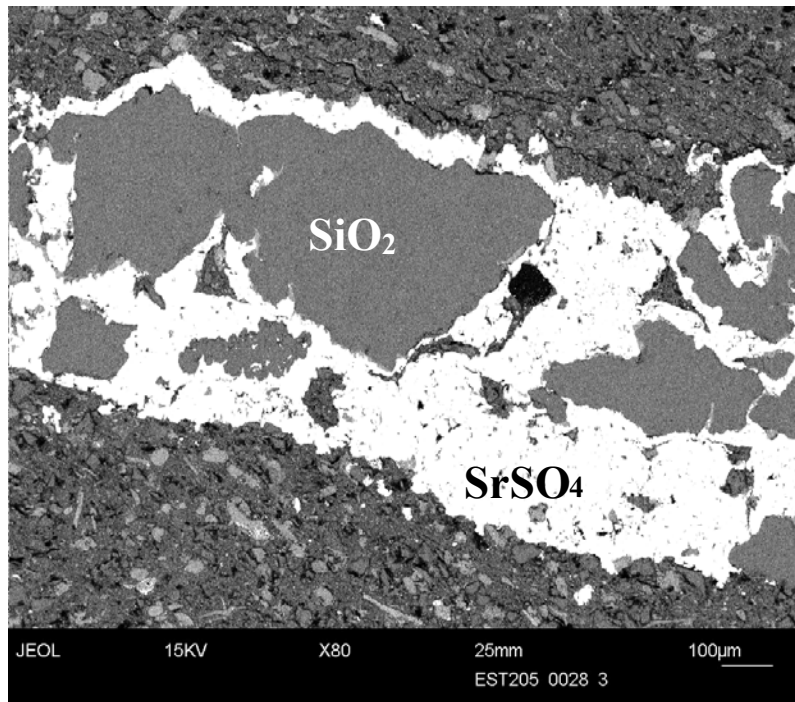


Figure 7: Scanning Electron Micrograph. Sample EST 05632 (475 m). Bioclast filled with celestite and chalcedony (?).

Figure 8 Average mineralogical composition of the different units of the studied interval of the host rock in borehole EST205 and EST103

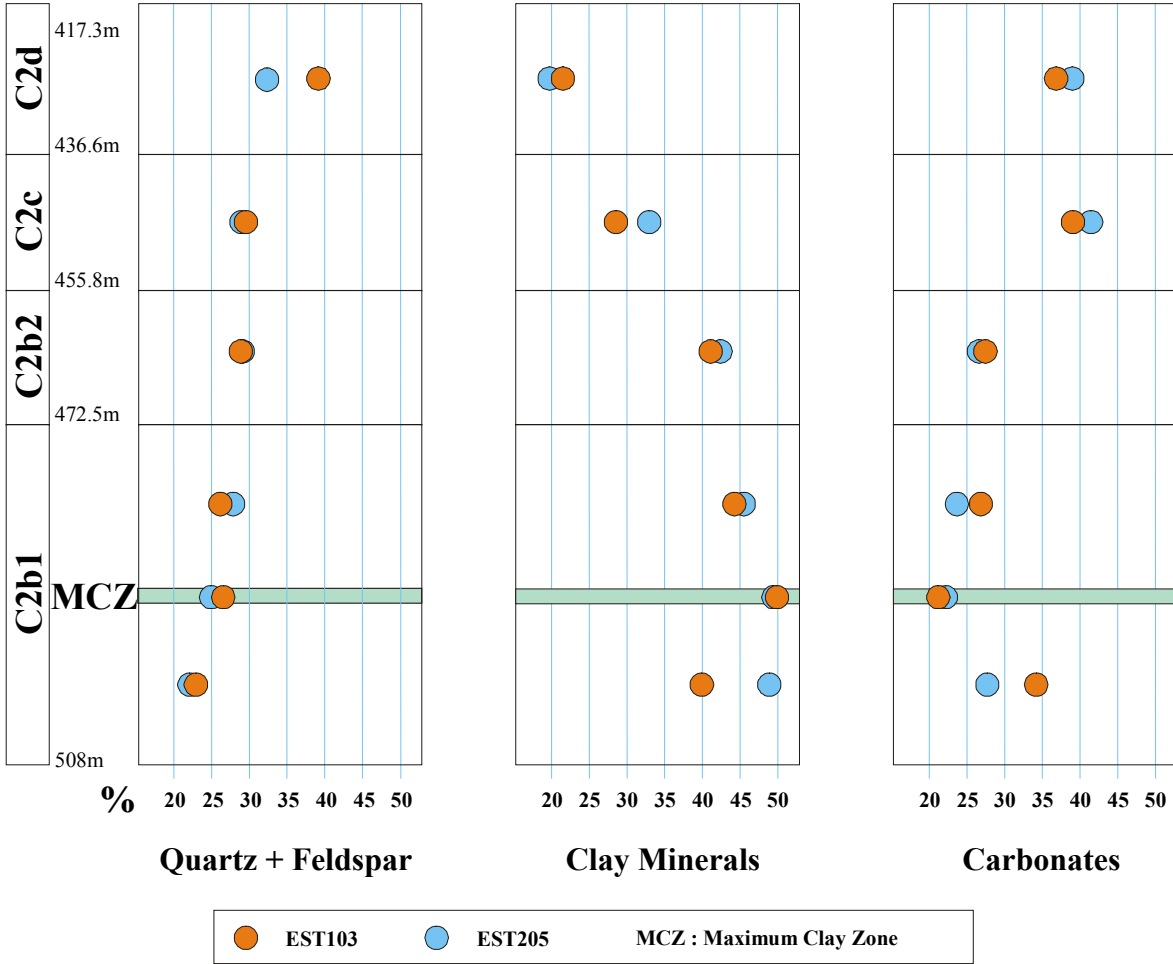


Figure 9: Average grain size composition of the different units of the studied interval of the host rock in borehole EST205 and EST103

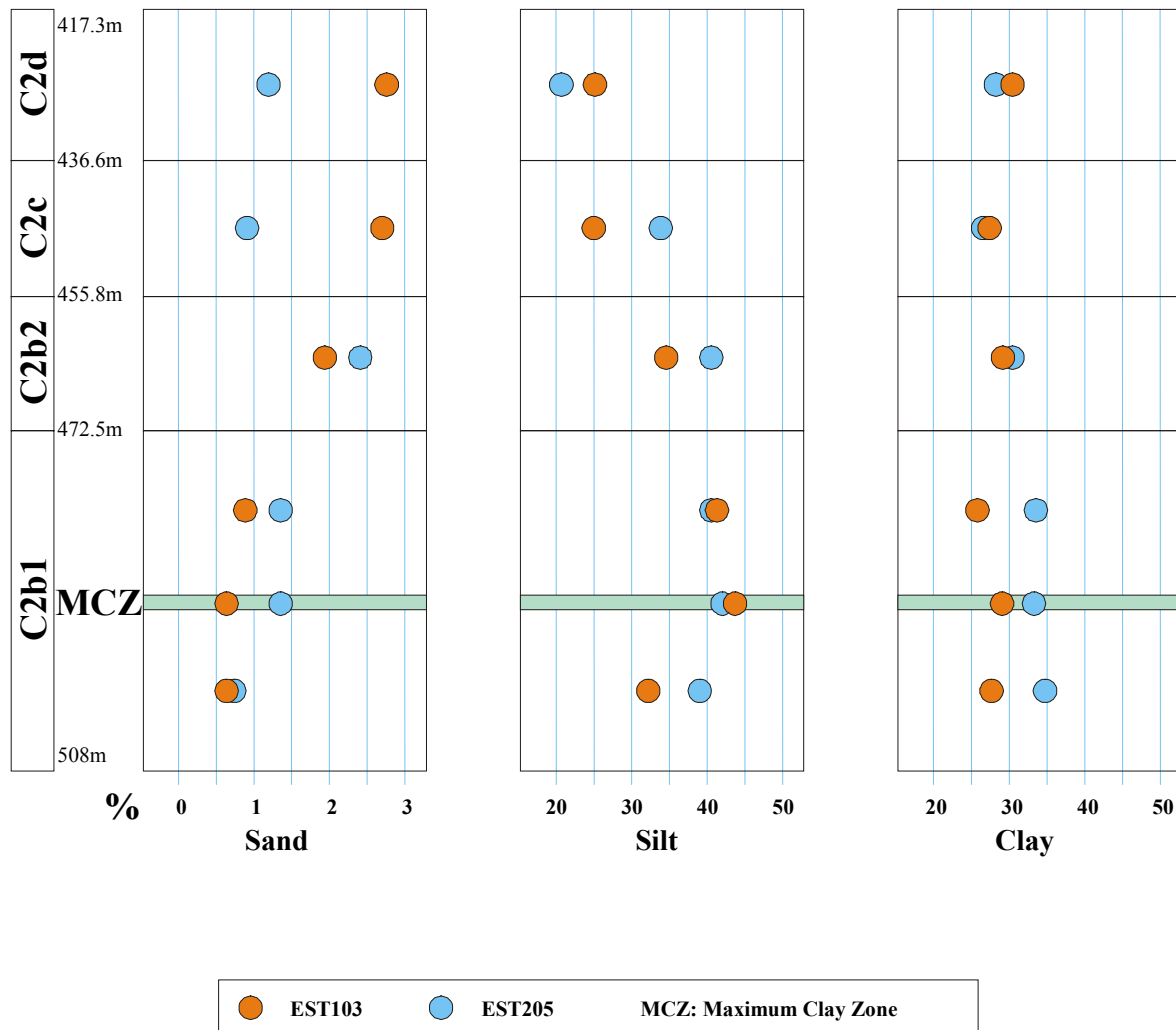


Figure 10: Relationships between mineralogical & particle-size data in the units of the host rock in boreholes EST205 & EST103

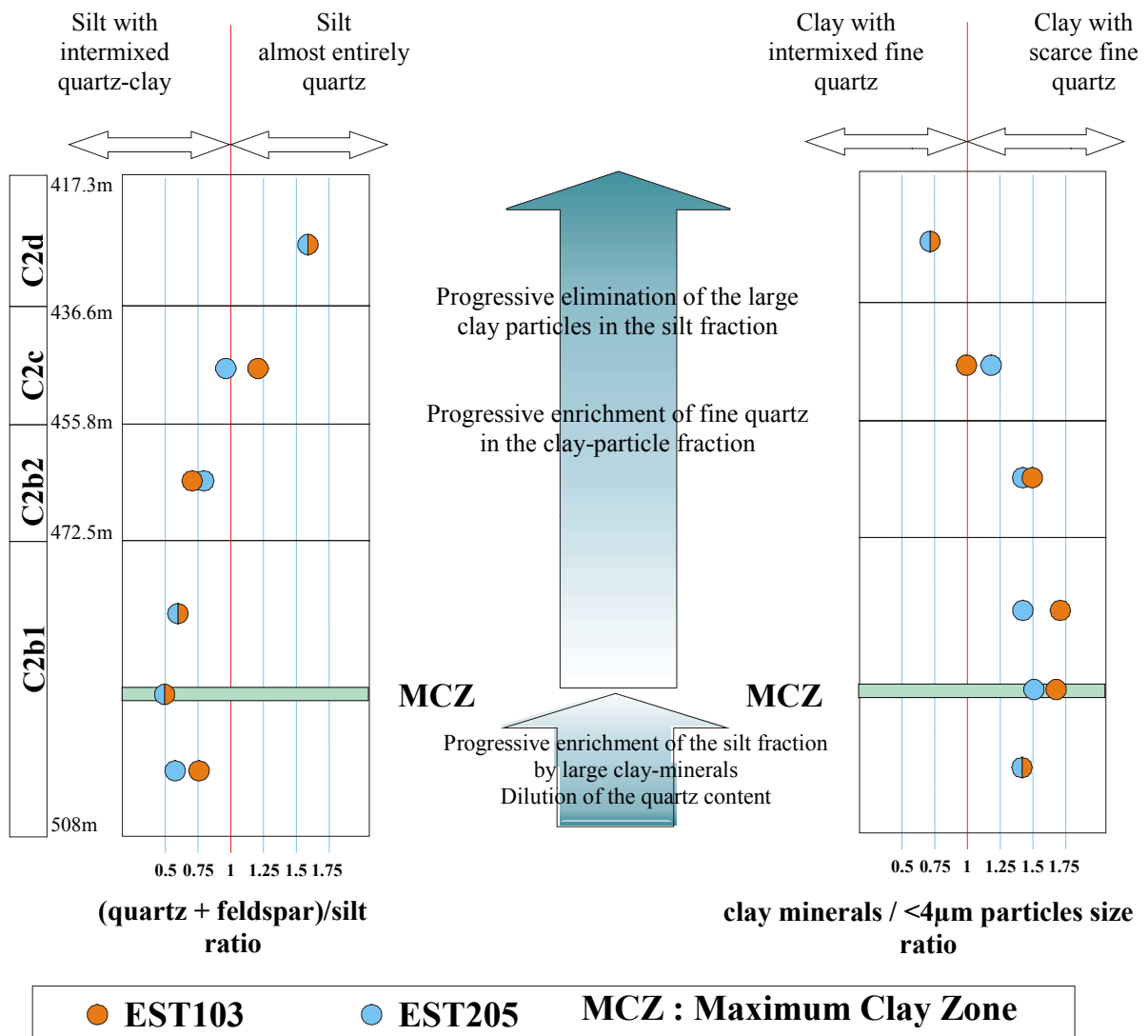


Figure 11: Physical Measurements

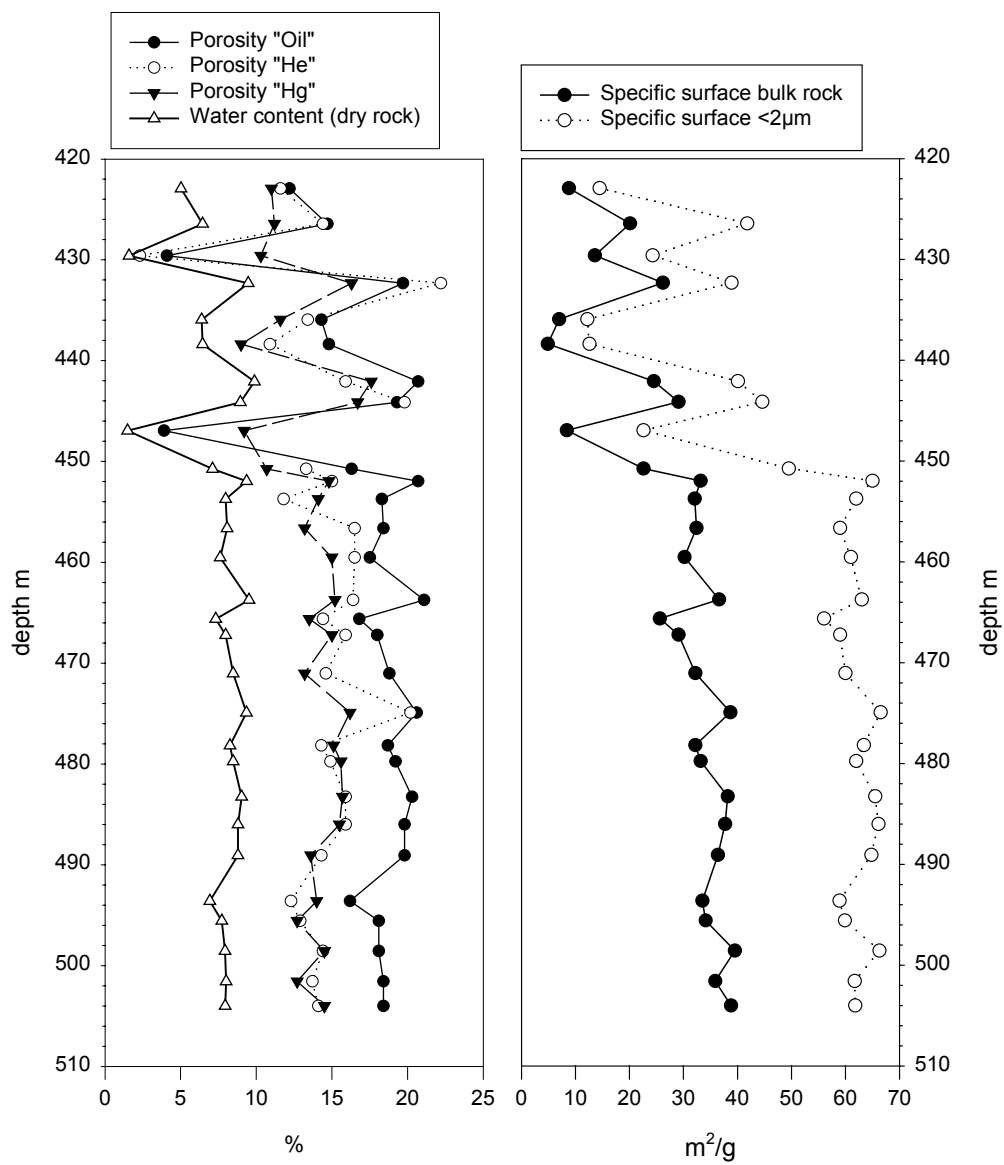


Figure 12: Principal Component Analysis axes 1 and 2.
 Percentage of minerals and elements content

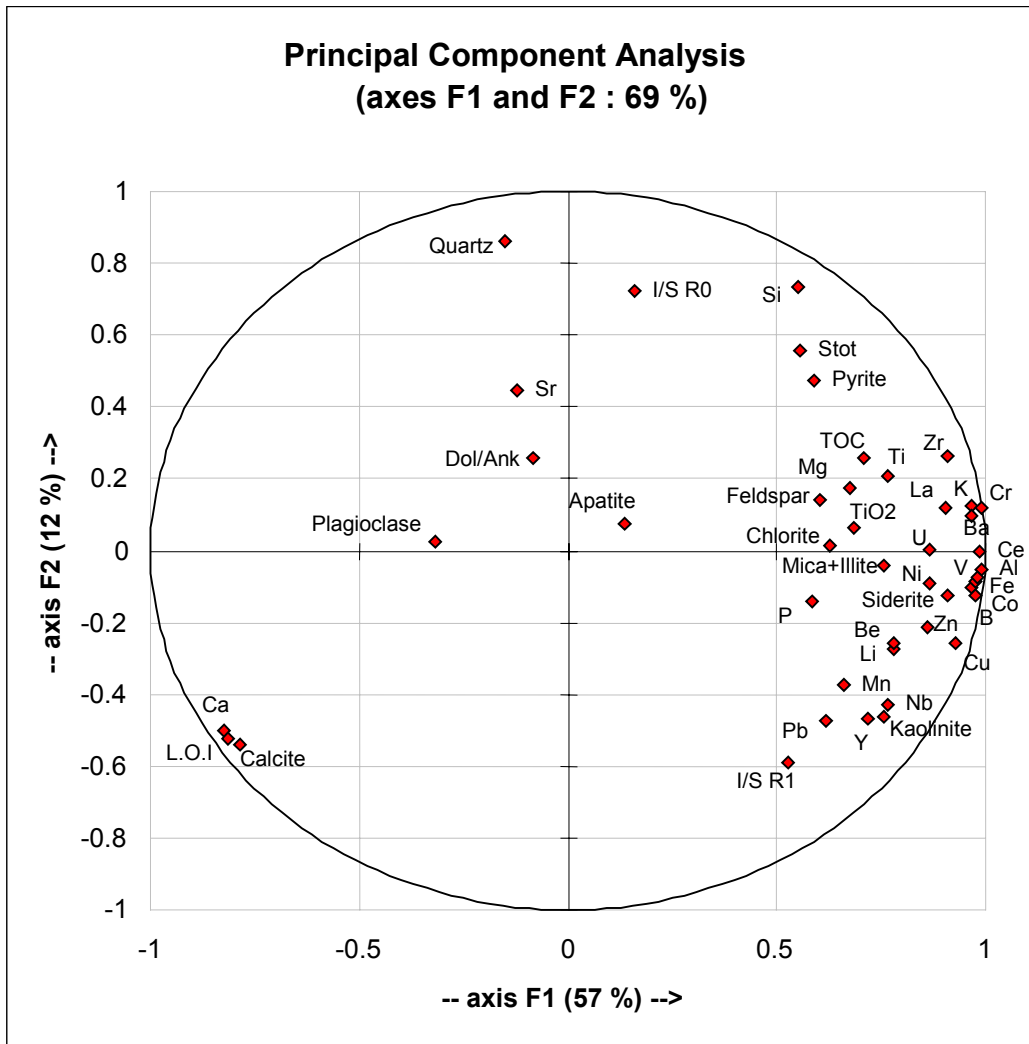


Figure 13: Cl and Br concentration in porewater (total water content, dry rock) and Cl/Br ratio (mg/l).

