Sedimentary processes and palaeoenvironments from La Combette sequence (southeastern France)
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## Supplementary Materials

<table>
<thead>
<tr>
<th>SU</th>
<th>Pedo-sedimentary description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Ah horizon with abundant silty inclusions.</td>
</tr>
<tr>
<td>2</td>
<td>Pale-yellowish-brown well sorted loamy deposit (not structured) with abundant calcareous pebbles (5mm – 1 cm) and bioturbation facies.</td>
</tr>
<tr>
<td>3</td>
<td>Laminated loamy deposit composed by undulated brownish silty-clay and pale-brown silty laminae (2 – 3 cm per laminae).</td>
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<tr>
<td>4</td>
<td>Pale-yellowish-brown very well sorted loamy deposit with rare limestone gravels (5 mm) and calcareous pebbles (5mm – 1 cm).</td>
</tr>
<tr>
<td>5</td>
<td>Pale-yellowish-brown very well sorted loamy deposit with calcareous pebbles (5mm – 1 cm) and lithic artefacts.</td>
</tr>
<tr>
<td>6</td>
<td>Pale-brown silts lense. Rare gravel inclusions.</td>
</tr>
<tr>
<td>7</td>
<td>Platy-rounded gravels (3 mm – 4 cm) and abundant sub-rounded blocks (10 to 40 cm) in a brown-yellowish silty-sand matrix, weakly sorted.</td>
</tr>
<tr>
<td>8</td>
<td>Black-brown ashy layer with abundant gravel inclusions (2 – 3 mm) and lithic material.</td>
</tr>
<tr>
<td>9</td>
<td>Platy-rounded gravels (3 mm – 4 cm) in a brown-yellowish silty-sand matrix, weakly sorted.</td>
</tr>
<tr>
<td>10</td>
<td>Reddish brown (7.5yr5/8) micro-laminated layer composed by alternated silt, sand-gravels, silt and sand laminae (2-3 mm per laminae).</td>
</tr>
<tr>
<td>11</td>
<td>Reddish pale brown laminated silty-sands with rare gravels. Silty-clayey red pedorelict inclusions.</td>
</tr>
<tr>
<td>12</td>
<td>Bioturbation layer: Gravels (2 – 5 mm) and centimetric blocks.</td>
</tr>
<tr>
<td>13</td>
<td>Reddis-brown well sorted sandy-silty layer. Rare rounded limestone gravel (~2 mm).</td>
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<tr>
<td>14</td>
<td>Rounded gravels (3mm – 5 mm) in abundant reddish-brown sandy matrix sometimes organized in layered lenses.</td>
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<tr>
<td>15</td>
<td>Bioturbation layer: gravels (5mm – 3 cm) in a brown-red silty-sandy matrix, weakly sorted.</td>
</tr>
<tr>
<td>16</td>
<td>Pale yellowish brown (10yr6/8) well sorted silts not structured. Sandy and gravels inclusions (2 -3 mm) with charcoals (3 – 4 mm) and lithic artefacts.</td>
</tr>
<tr>
<td>17</td>
<td>Pale brown (10yr6/8-5/8) granular and weakly sorted sandy-silty deposit. Limestone gravels and blocks inclusions in the upper part with some lithic artefacts and charcoals.</td>
</tr>
<tr>
<td>18</td>
<td>Brown-grey (10yr5/6-5/8) granular and weakly sorted loamy-sands with diffused ashes. Limestone sub-angular gravel inclusions (2mm – 2 cm), millimetric charcoals and lithic artefacts.</td>
</tr>
</tbody>
</table>

*Table A.1: Detailed field pedo-sedimentary description of La Combette sequence Stratigraphic Units.*
### Table A.2: Synthesised description of FS1.a and FS1.b micromorphological facies following Stoops (2003) terminology; Qtz=quartz, Mi=mica, Fld=feldspath; Plg=plagioclase; Cl=calcite; Mls=non-weathered molasse (local biogenic carbonated rock); MlsA1=decarbonised/recrystallised molasse (local biogenic carbonated rock); ****** very dominant (>70%), ***** dominant (50-70%), **** frequent (30-50%), *** common (15-30%), ** few (5-15%), * very few (<5%); BDP=Basic Distribution Patterns.

<table>
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<tr>
<th>Marker</th>
<th>FS1.a</th>
<th>FS1.b</th>
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<tbody>
<tr>
<td>Coarse fraction</td>
<td>Qtz*****; Mi*; Fld*; Plg*; Cl*; Mls**</td>
<td>Qtz**; Mi; Fld*; Plg*; Cl*; Mls*****</td>
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<tr>
<td>Size fabric unit</td>
<td>Fine sand/silt</td>
<td>Medium sand/coarse sand</td>
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<tr>
<td>Shape</td>
<td>Angular-subangular</td>
<td>Subangular-rounded</td>
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<td>Sorting</td>
<td>Perfectly sorted</td>
<td>Moderately sorted</td>
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<tr>
<td>Orientation</td>
<td>Subhorizontal***; horizontal***</td>
<td>Subhorizontal**; horizontal****</td>
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<tr>
<td>BDP</td>
<td>banded</td>
<td>banded</td>
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<tr>
<td>c/f ratio</td>
<td>90/10</td>
<td>90/10</td>
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<tr>
<td>c/f limit</td>
<td>40 µm</td>
<td>200 µm</td>
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<tr>
<td>Porosity</td>
<td>Simple packing voids</td>
<td>Simple packing voids</td>
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<tr>
<td>b-fabric</td>
<td>undifferentiated</td>
<td>undifferentiated</td>
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<tr>
<td>pedofeatures</td>
<td>Red clay pedorelicts</td>
<td>Red clay pedorelicts</td>
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</tbody>
</table>

### Table A.3: Synthesised description of FS2.a, FS2.b and FS2.c micromorphological facies following Stoops (2003) terminology; Qtz=quartz, Mi=mica, Fld=feldspath; Plg=plagioclase; Cl=calcite; Mls=non-weathered molasse (local biogenic carbonated rock); MlsA1=decarbonised/recrystallised molasse (local biogenic carbonated rock); ****** very dominant (>70%), ***** dominant (50-70%), **** frequent (30-50%), *** common (15-30%), ** few (5-15%), * very few (<5%); BDP=Basic Distribution Patterns.

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<thead>
<tr>
<th>Marker</th>
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<th>FS2.c</th>
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<td>Coarse fraction</td>
<td>Qtz*****; Mi*****; Fld**; Plg**; Cl*; Mls /</td>
<td>Qtz*****; Mi*; Fld*; Plg*; Cl*; MlsA1 **</td>
<td>Qtz*****; Mi**/; Fld*; Plg*; Cl*/; Mls****; MlsA1**</td>
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<tr>
<td>Size fabric unit</td>
<td>Silt Caly</td>
<td>Silt/very fine sand</td>
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<td>Shape</td>
<td>subangular</td>
<td>Rounded/subrounded/subangular</td>
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<td>Sorting</td>
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<td>Well sorted</td>
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<td>Orientation</td>
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<td>Random or Subhorizontal***; Subvertical*; vertical*</td>
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<td>BDP</td>
<td>Massive to bended</td>
<td>banded</td>
<td>random</td>
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<tr>
<td>c/f</td>
<td>Fine monic to porphyric</td>
<td>Close porphyric to close enaulic</td>
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<td>Porosity</td>
<td>Channels*, vesicles*</td>
<td>Complex packing voids, channels*, vesicles**</td>
<td>Complex packing voids, channels* chambers*, vesicles*</td>
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<td>Single grain microstructure to vughy</td>
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<tr>
<td>Coarse fraction</td>
<td>Qtz**; Mi*; Fld*; Plg*; Cl*; Gl*; Mls*****</td>
<td>Qtz*****; Mi*; Fld*; Plg*; Cl*; Gl*; Mls*****</td>
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<tr>
<td>Size fabric unit</td>
<td>Silt &lt;5%; very fine sand &lt;10%; fine sand 20-30%; medium sand 30-40%; coarse sand 10-20%; very coarse sand 20%</td>
<td>Silt &lt;20%; very fine sand 20-30%; fine sand 30-40%; medium sand 20-30%; coarse sand 10-20%; very coarse sand &lt;10%</td>
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<tr>
<td>Shape</td>
<td>Subrounded****/subangular***</td>
<td>Angular***/subangular**/subrounded**</td>
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<tr>
<td>Sorting</td>
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<td>200-300 µm</td>
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<td>Simple packing voids</td>
<td>Compound packing voids/Complex packing voids</td>
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<td>Microstructure</td>
<td>Pellicular</td>
<td>Granular</td>
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<td>Pedofeatures</td>
<td>Clay coatings/capping coatings on grains; pedorelicts</td>
<td>Clay coatings/capping coatings on grains; pedorelicts; micritic coatings on porosity</td>
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</tr>
</tbody>
</table>

**Table A.4:** synthetised description of FS3.a and FS3.b micromorphological facies following Stoops (2003) terminology; Qtz=quartz, Mi=mica, 23 Fld=feldspath; Plg=plagioclase; Cl=calcite; Mls=non-weathered molasse (local biogenic carbonated rock); ***** very dominant (>70%), **** dominant (50-70%), *** frequent (30-50%), ** common (15-30%), * few (5-15%), * very few (<5%); BDP=Basic Distribution Patterns.

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<td>Lenticular microstructure, « isoband fabric »</td>
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<td>Soil symmetrical faults and consolidation structures</td>
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<td>Plastic deformation</td>
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<td>Micromass</td>
<td>Clay-silty capping coatings on grains</td>
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<td>Fragmented lenticular peds</td>
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<tr>
<td>Porosity</td>
<td>Planar voids non-accommodated or partially accommodated</td>
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<td>Star-shaped vesicles</td>
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Table A.5: synthetised description of FP2.a, FP2.b and FP2.c micromorphological facies following Stoops (2003) terminology; and Dumanski (1964); Pissart (1969); Rowell & Dillon (1972); Fedorova & Yarilova (1972); FitzPatrick (1976); Van Vliet-Lanoë (1976); Fox & Protz (1981); Van Vliet-Lanoë (1985); Miedema (1987); Tarnocai & Smith (1989); Van Vliet-Lanoë (2004); Bertran & Texier (1999); Phillips (2006); Phillips et al. (2007); Mächer et al. (2010); Van Vliet-Lanoë (2010) terminology and references.