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**Quaternary deposits of the basin of the Basse-Broye (Switzerland)**

Through gravity modeling founded on many new measurement station, the shape and depth of the basin of the Basse-Broye can be more precisely defined. Furthermore, this study shows that an early deep valley crosses the threshold of Fetigny, to the west of the present epigenetic watercourse of the Broye. These structures are erosional Wurmian forms. Many drill holes, some cored, allow reconstruction and dating the main phases of probably under drift ice, and continues with glaciolacustrine deposits. At the end of the early Dryas and during the Bolling period, the sedimentation becomes fluvatile. Palustrine and flood plain conditions are prevalent later, with short and catastrophic fluvatile events. The phases of this history are partly dated by <sup>14</sup>C and by archaeological discoveries. Once again, it can be shown that the " lac de Soleure " at 50 m altitude did not exist during the post-glacial periods.

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