## Dinoflagellate Cysts at the Karpatian/Badenian Boundary of Wagna (Styrian Basin, Austria)

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Dinoflagellate cysts are described from the locality Wagna (Karpatian/Badenian, Early/ Middle Miocene) for the first time. The detected assemblages include 38 taxa and provide new biostratigraphical as well as palaeoenvironmental information. The Karpatian/ Badenian boundary is clearly marked in all three studied sections by the first occurrences of *Operculodinium? borgerholtense* and *Batiacasphaera sphaerica* with the onset of the Badenian. Generally, dinocyst diversity is relatively low in all studied samples but a distinctive decline just below the Karpatian/Badenian boundary is recorded. This is in accordance with foraminiferal data and coincides with the 3<sup>rd</sup> order sea level fall at the Karpatian/Badenian (Early/Middle Miocene) boundary. In contrast to calcareous planktonic foraminifers, organic-walled dinocysts seem not to be affected by higher nutrient levels, which may have been induced by increased volcanic activities during the Karpatian.

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