

**U-Pb-AGE DETERMINATIONS ON DETRICAL  
ZIRCONS OF LOWER DEVONIAN ROCKS  
OF THE ARDENNE AND THE RHEINISCHES  
SCHIEFERGEBIRGE**

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The U-Pb-isotope-systematics in detritical zircons from lower Devonian sedimentary rocks of the Ardenne and the Rheinisches Schiefergebirge can be used for provenance

studies. Three samples taken from the Taunus-anticline, the Ebbe-anticline and from the northern part of the Dinant-syncline show an uniform age-spectrum, in which four different isotopic age-patterns with different geologic records can be identified. There is strong evidence for a magmatic event close to the northern border of the Ebbe-anticline around 500 m.a. The bulk of the lower Devonian detritus though is derived from the Baltic shield as part of the Old Red Continent. These results stand in contrast to those achieved by the same method on Cambrian sedimentary rocks, where Gondwanian source areas are suggested.