

Geowissenschaftliches Kolloquium

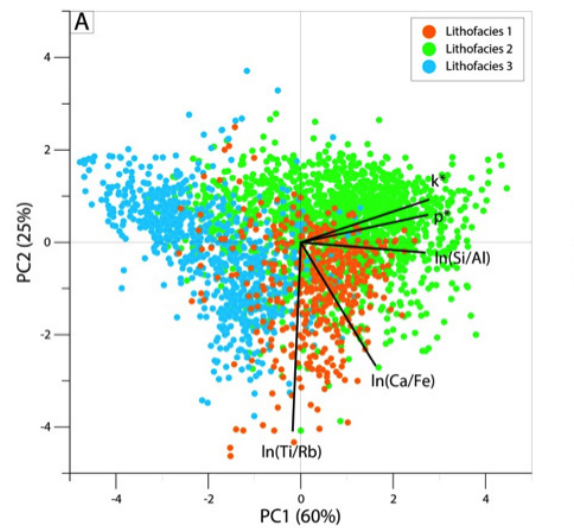
Quantitative analysis of sediment properties for paleoenvironmental reconstructions

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Reconstructing conditions under which clastic sediments have formed requires an understanding of the statistical behaviour and information content of sediment properties. Many sediment properties are multivariate compositional data which can only be analysed after log-ratio transformation. Integration of sparse data with high-resolution multivariate proxy records obtained by XRF core scanning represents a “big data” approach to core analysis, which permits prediction of all measured properties at high resolution to provide a sound basis for inferring geological controls on sediment properties.



Gert Jan Weltje obtained his PhD at Utrecht University (NL), and then worked both in industry and academia. After 17 years of teaching Applied Geology at TU Delft (NL), he is now full professor of sedimentary systems at KU Leuven (BE). His research interests comprise quantitative sediment provenance and generation, forward stratigraphic modelling, and reservoir-quality prediction.

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