



VARIFORC: a powerful FORC analysis tool specially suited to environmental magnetic applications

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VARIFORC is a new tool for the analysis of first-order reversal curves (FORC), especially developed for the highly demanding applications typically occurring in environmental magnetism (e.g. quantitative magnetic component unmixing in weak samples). The currently unique capabilities of VARIFORC are illustrated with examples where the magnetic signature of authigenic minerals (e.g. magnetofossils) is isolated from other magnetic contributions associated with detrital or aeolian inputs in pelagic carbonates. Live demonstrations at the poster stand are possible. VARIFORC is freely available at <http://www.conrad-observatory.at/cmsjoomla/de/download>.