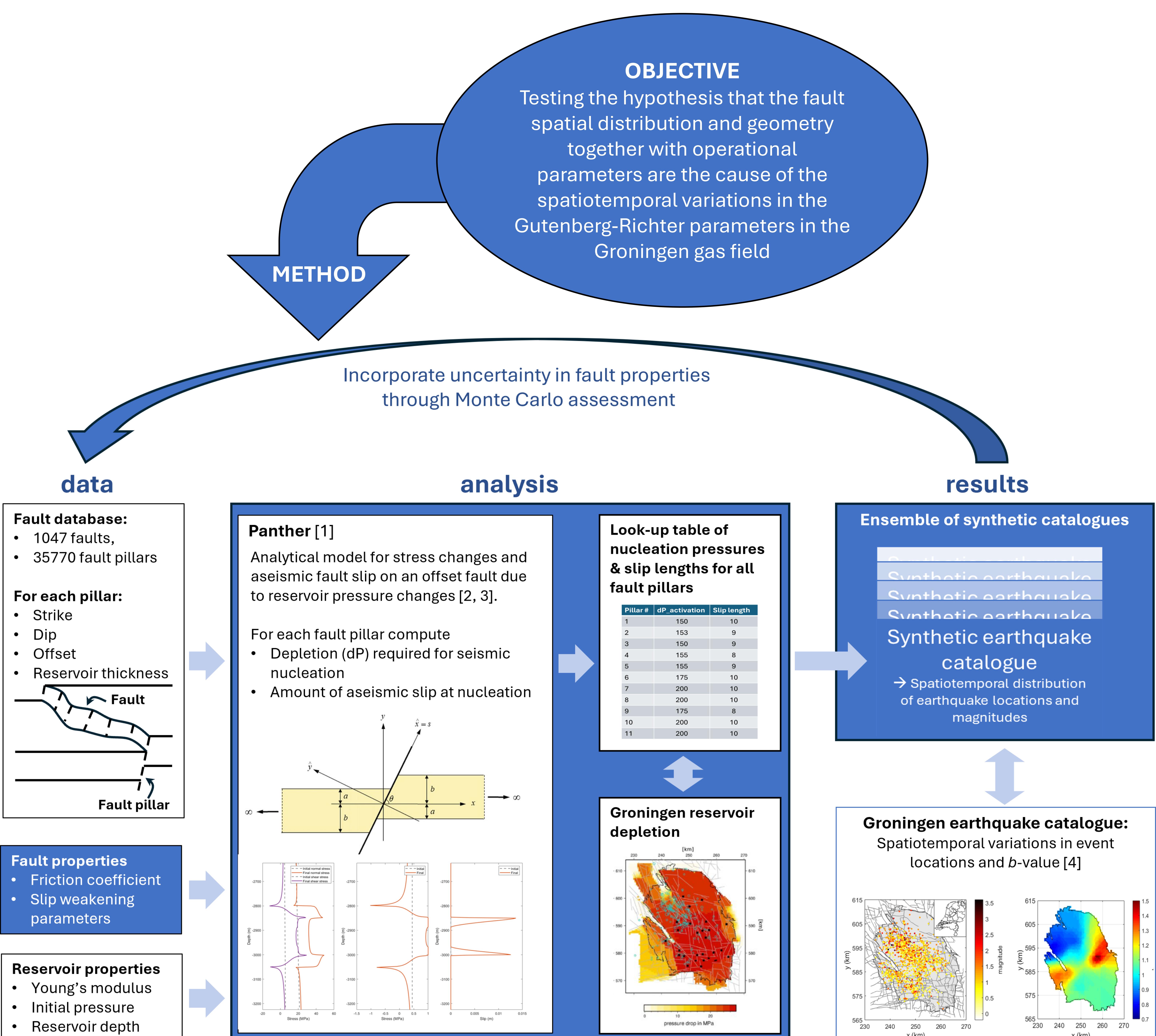


Causal processes of the temporal and spatial variations in the Gutenberg-Richter parameters

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References

- [1] TNO, Physics-based semi-ANalytical Tool for Human-induced Earthquake Rupture (PANTHER), [2] Jansen, J. D., Singhal, P. & Vossepoel, F. C., Insights From Closed-Form Expressions for Injection- and Production-Induced Stresses in Displaced Faults. *J. Geophys. Res. Solid Earth* 124, 7193–7212 (2019). [3] Jansen, J.-D. & Meulenbroek, B., Induced aseismic slip and the onset of seismicity in displaced faults. *Neth. J. Geosci.* 101, e13 (2022). [4] Muntendam-Bos, A. G. & Grobbe, N., Data-driven spatiotemporal assessment of the event-size distribution of the Groningen extraction-induced seismicity catalogue. *Sci. Rep.* 12, 10119 (2022).