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Spatial characterization of Cretaceous Western Interior Seaway paleoceanography using foraminifera, fuzzy sets and Dempster-Shafer theory

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Highlights

- Western Interior Seaway oceanography is reconstructed for the first time using GIS.
- Foraminiferal occurrences are tied to water depth, silt and carbonate contents.
- The area of north-south water mixing may be larger than previously thought.
- Fuzzy sets and DS theory are viable, quantitative methods for paleontological data.
- New regions are identified for meaningful data collection to understand the seaway.

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