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## Precipitation of freshwater carbonates - in-situ accumulation experiments in the creekbed of the stream Friede (NW-Thuringia)

## IVONNE KAMRADT

## **Abstract**

Thuringia is one of the freshwater carbonate riches areas in Germany. They are still in the process of sedimentation until now. By in-situ accumulation experiments in the creekbet of stream Friede, recent sedimatation rate, structural buildup a chemical composition could are analysed.

Three annual layers of pure calcite where deposited in flowing and in lentic water. Biogene induced deposits dominate the whole year in the flowing water. Spring-summer sedimentation is characterised by fluffily associated calcified Cyanophycees. Autumn-winter sedimentation is characterised by compact stromatholotic calcified Cyanophycees. Abiotic accumulated sparite begins the Spring-summer sedimentation in lentic water. Fluffily, biogen induced layers of calcified Cyanophycees represent the autumn-winter sedimentation. A micritic interlayer demonstrate a waterless period in the second year.