Experimental modelling of subduction zone earthquakes and seismic cycles – An overview.

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Experimental approaches to the simulation of subduction zone earthquakes and seismic cycles using analogue scale models have made significant progress in the last ten years due to new materials and monitoring technologies as well as numerical benchmarking and advanced data analysis methods. Here we present the current state of the art in analogue earthquake and seismic cycle modelling. Based on key studies we showcase the challenges and strategies involved and delineate perspectives for future work.