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## **What is the shape of a viscoplastic slump?**

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Materials such as mud are often modelled as viscoplastic fluids with a significant yield stress. As a result of that stress, when a volume of such fluid slumps to rest, it leaves a final deposit with a nontrivial shape. Here, we ask the question of exactly what is that shape. We solve the equations of force balance for the deposit assuming that it yielded everywhere, using a characteristics technique borrowed from plasticity theory, and we compare the results to experimental data.