Experiments

This file lists the different experiments made using the $\mu(I) - \Phi(I)$ rheology in the McGill SIM model.

04

Why

This was made to test wether the $\mu(I)$ coefficient is correctly computed.

What I learned

For the small test that I'm doing, the computations seems not to be stable for a long time but I'm able to still compute some stuff. This was made with the following parameters

- d_average = 10 ! Average floe size
- mu_0 = 2.6d-01 ! Static friction coefficient
- mu_infty = 4.93 ! free parameter depends on material properties
- c_phi = 5.3d-01 ! free parameter depends on material properties
- I_0 = 2.5d-01 ! free parameter depends on material properties

05

Why

This was made to test wether the $\mu(I)$ coefficient is correctly computed.

What I learned

For the small test that I'm doing, the computations seems not to be stable for a long time but I'm able to still compute some stuff. This was made with the following parameters (which are almost the same as 04 but I_0 has changed)

- d_average = 10 ! Average floe size
- mu_0 = 2.6d-01 ! Static friction coefficient
- mu_infty = 4.93 ! free parameter depends on material properties
- c_phi = 5.3d-01 ! free parameter depends on material properties
- I_0 = 6.8d-03 ! free parameter depends on material properties