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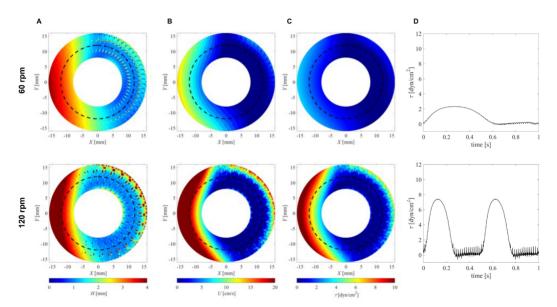


Fig. S1 Examples of flow-culture dynamics at two different rotational speeds for the low viscosity medium ($\mu = 1 \, mPa * s$). (A) Heat maps of fluid layer thickness H. (B) Heat maps of surface velocity U. (C) Heat maps of bed shear stress fields τ . (D) Waveform of bed shear stress at a radius of 12 mm (corresponding to dashed circular line in A, B, C).