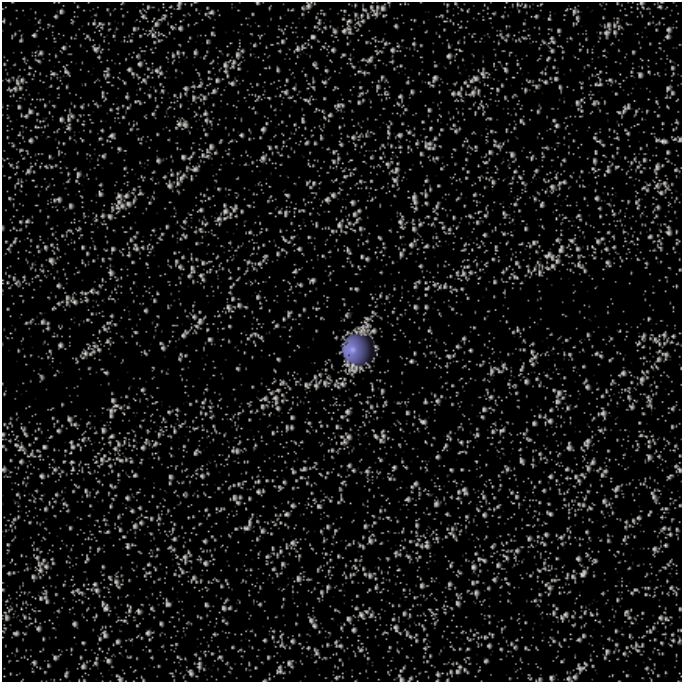
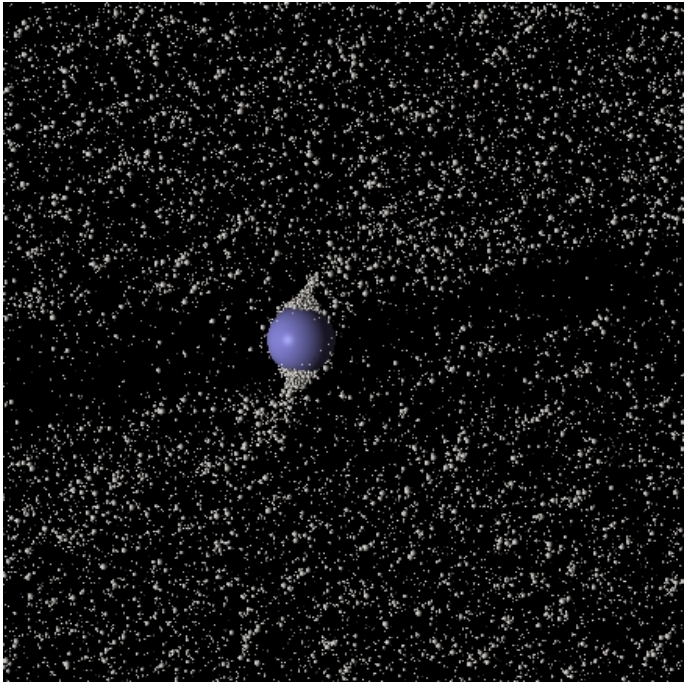
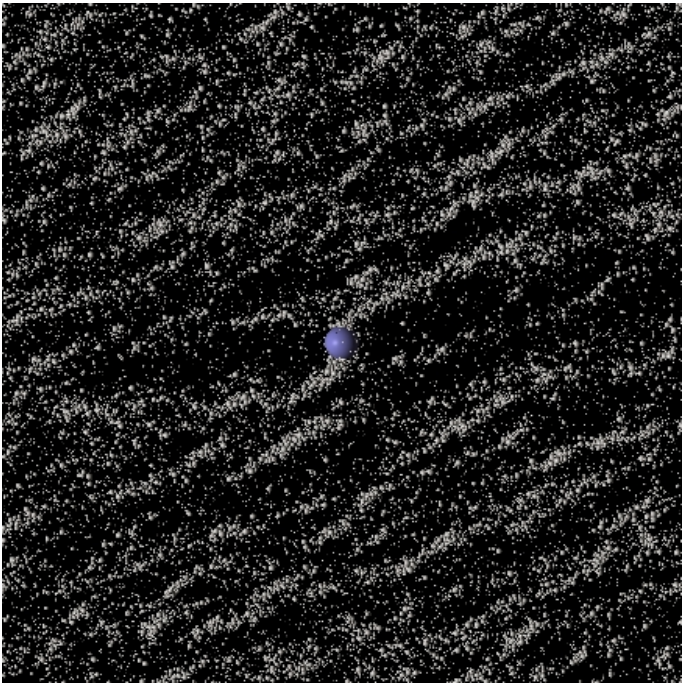


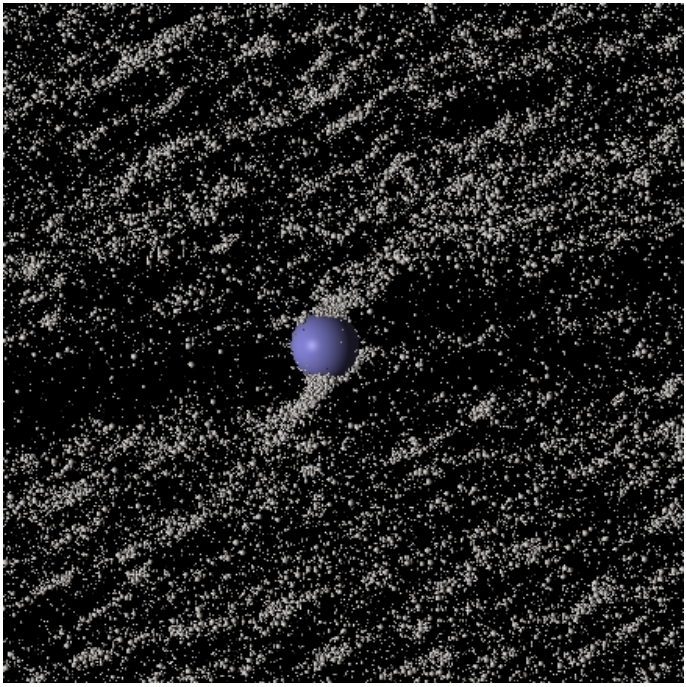
(a) $\Sigma = 200\,\mathrm{kg/m^2}$, $r_2 = 25\,\mathrm{m}$



(b) $\Sigma = 200\,\mathrm{kg/m^2}$, $r_2 = 50\,\mathrm{m}$



(c) $\Sigma = 400\,\mathrm{kg/m^2}$, $r_2 = 25\,\mathrm{m}$



(d) $\Sigma = 400\,\mathrm{kg/m^2}$, $r_2 = 50\,\mathrm{m}$