Additional File 5

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In this additional file, the figures for $\tau_s = 1$ are shown that correspond to those for $\tau_s = 0.01$ in the main text. For convenience, we use the same number headed by "S" for each figure. For example, Fig. S1 corresponds to Fig. 1 in the main text, but for $\tau_s = 1$ instead of $\tau_s = 0.01$. The dust density exceeds the Roche density around x_+ within 10 orbits, as shown in Figs. S3 and S4.

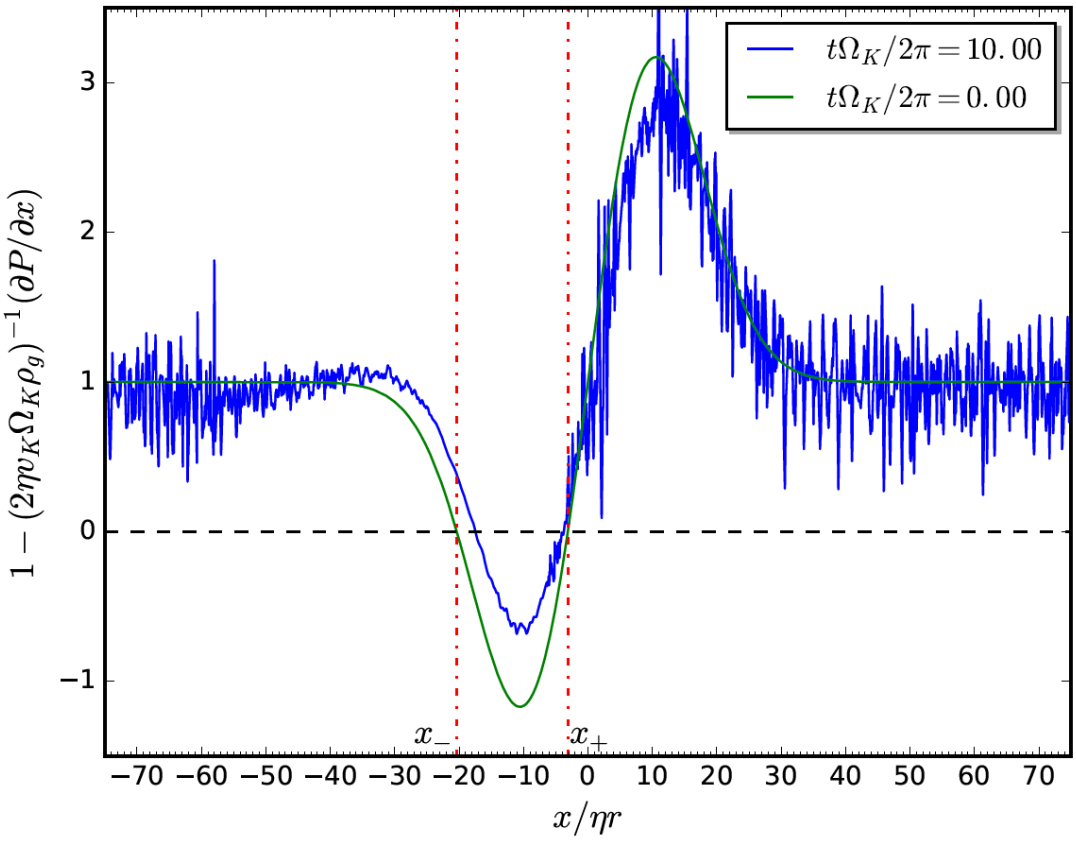

Figure S1. Radial distribution of the normalized radial pressure gradient force *f* at the midplane for $\tau_s = 1$.

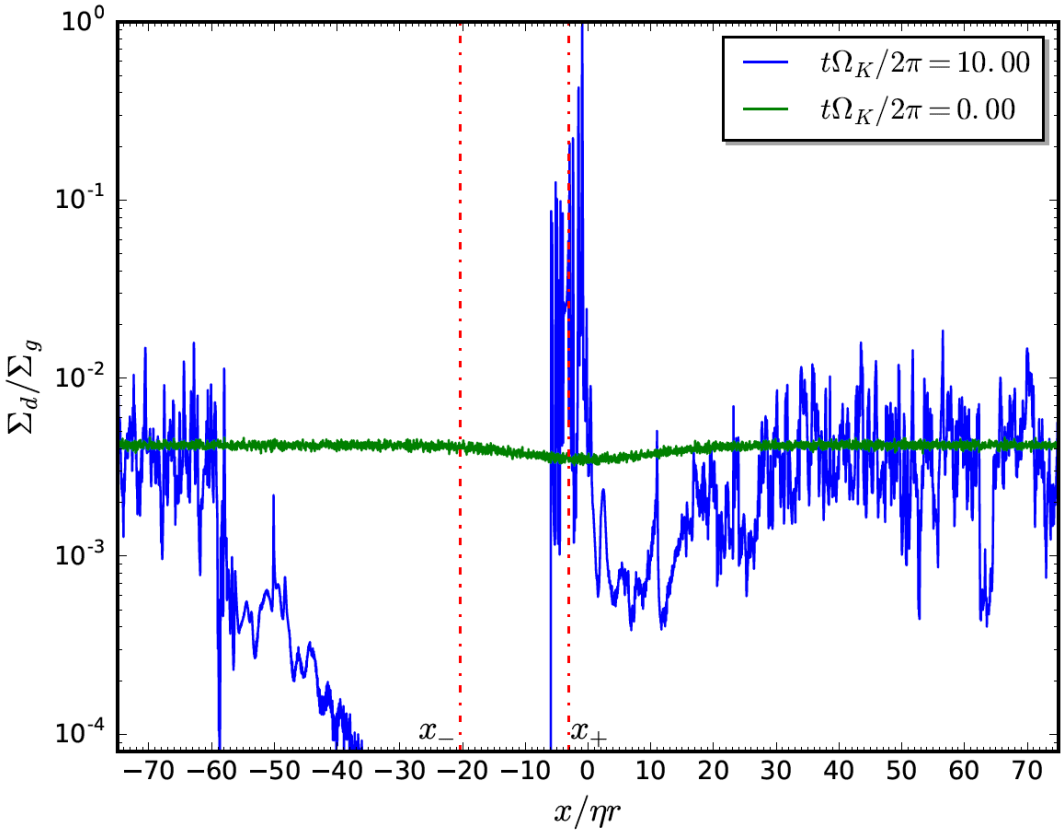

Figure S2. Radial distribution of metallicity Σ_d/Σ_g for $\tau_s = 1$.

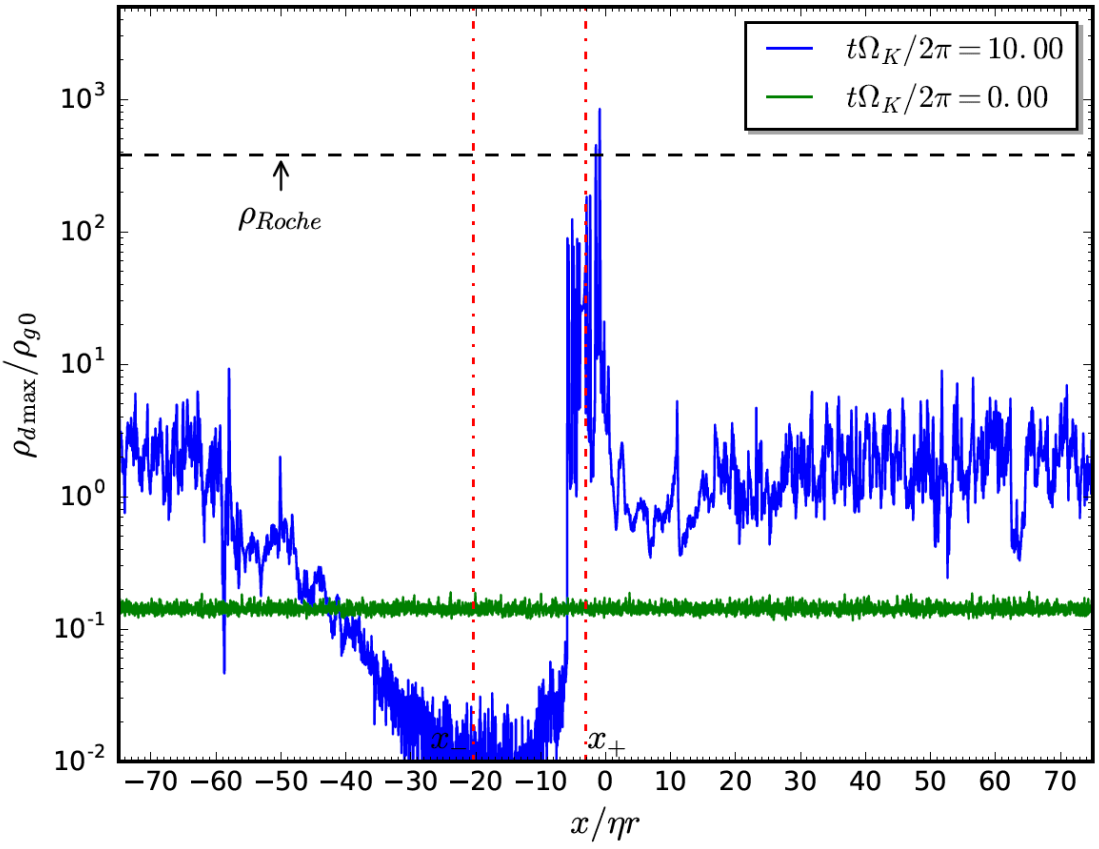

Figure S3. Radial distribution of maximum dust density $\rho_{d,}$max for τ_s = 1. The horizontal dotted line shows the Roche density ρ_{Roche} at 1 AU from the star with the solar mass.

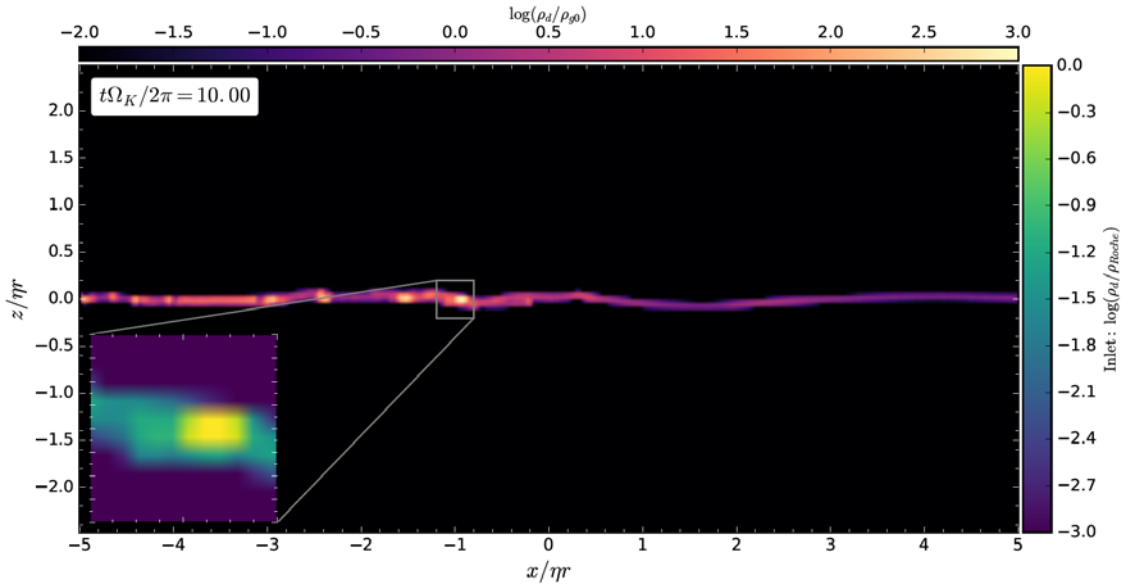

Figure S4. Dust density distribution around x_+ for $\tau_s = 1$. The dust density is normalized by ρ_{g0} (the dust density shown in the inlet is normalized by $\rho_{Roche} = 3.8 \times 10^2 \rho_{g0}$).

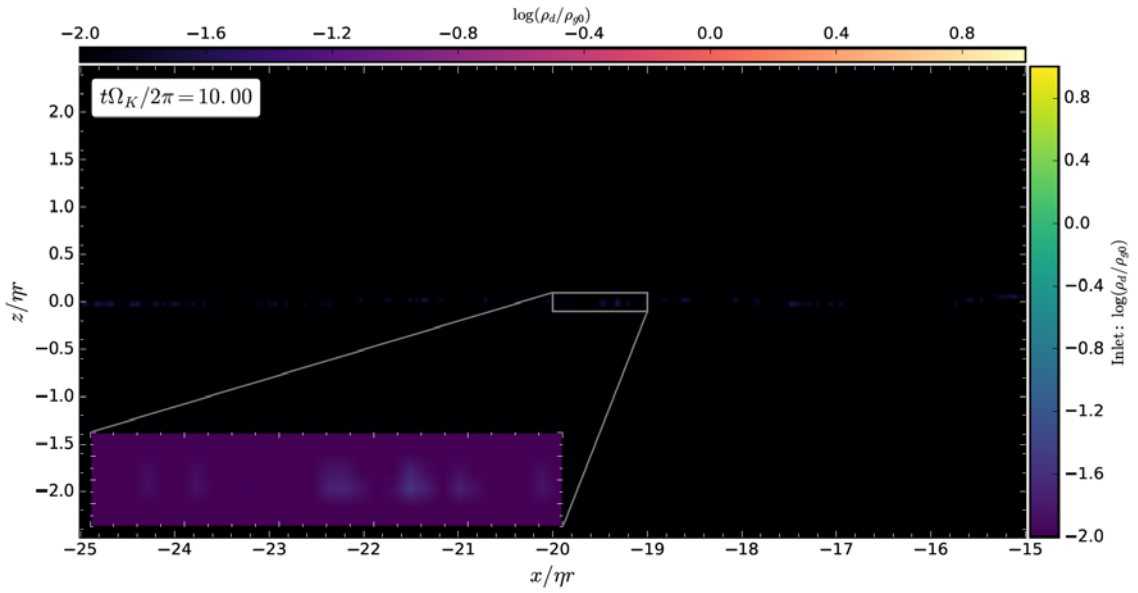

Figure S5. Dust density distribution around x- for $\tau_s = 1$. The dust density is normalized by ρ_{g0}.