Model	Type	$M_2(t=0)$ [$0.978\,\mathrm{M}_\odot$]	$r_{\rm jet}$ [δ_0]	$\dot{M}_{\rm jet}$ [$10^{-3}\,\mathrm{M}_\odot\,\mathrm{yr}^{-1}$]	$\dot{M}_{\rm acc}$	$\dot{M}_2$	$v_{\rm jet}$ [$\mathrm{km\,s^{-1}}$]	$\theta_{\rm h}$ [°]	$\dot{M}_{\rm jet}/\dot{M}_{\rm Edd}$	R_2 [$\mathrm{R}_\odot$]	Q	$Q_{\rm eff}$
J1	MS	1	1	2	0	$-\dot{M}_{\rm jet}$	864	15	~ 1	1	2	2
NJ1	—	1	—	—	—	—	—	—	—	—	—	—
J2	MS	0.5	1	20	$\mathbf{min(10\dot{M}_{jet},\,\dot{M}_{BHL})}$	$\mathbf{\dot{M}_{acc}-\dot{M}_{jet}}$	864	15	~ 2	0.5	≈ 2.24	2
NJ2	—	0.5	—	—	—	—	—	—	—	—	—	—
J3	MS	1	1	2	0	0	864	15	~ 1	1	2	2
J4	MS	1	1	2	$\mathbf{min(10\dot{M}_{jet},\,\dot{M}_{BHL})}$	$\mathbf{\dot{M}_{acc}-\dot{M}_{jet}}$	864	15	~ 1	1	2	2
J5	MS	1	1	20	$\mathbf{min(10\dot{M}_{jet},\,\dot{M}_{BHL})}$	$\mathbf{\dot{M}_{acc}-\dot{M}_{jet}}$	864	15	$\mathbf{\sim 10}$	1	2	2
J6	MS	1	1	2	0	$-\dot{M}_{\rm jet}$	1728	15	~ 1	1	4	4
J7	MS	1	1	2	0	$-\dot{M}_{\rm jet}$	864	30	~ 1	1	2	2
J8	WD	1	1	0.02	$\mathbf{min(10\dot{M}_{jet},\,\dot{M}_{BHL})}$	$\mathbf{\dot{M}_{acc}-\dot{M}_{jet}}$	8640	15	~ 1	0.01	≈ 2.45	2
J9	NS	1	1	0.32	$\mathbf{min(10\dot{M}_{jet},\,\dot{M}_{BHL})}$	$\mathbf{\dot{M}_{acc}-\dot{M}_{jet}}$	3×10^4	15	$\sim 10^4$	1.6×10^{-5}	≈ 1.44	≈ 0.278
J10	NS	1	1	**32**	$\mathbf{min(10\dot{M}_{jet},\,\dot{M}_{BHL})}$	$\mathbf{\dot{M}_{acc}-\dot{M}_{jet}}$	3×10^4	15	$\mathbf{\sim 10^6}$	1.6×10^{-5}	≈ 1.44	≈ 0.278

Table 1. Models labeled with 'J' refer to runs with a jet, and those labeled with 'NJ' refer to runs without a jet. For all runs, $r_{\rm soft} = 2.41\,\mathrm{R}_\odot$ and $T = 10^4$ K. The base resolution $\delta_0 = 2.25\,\mathrm{R}_\odot$. Model J8 with $R_2 = 0.01\,\mathrm{R}_\odot$ is the WD model. Model J9 with $R_2 = 1.6\times10^{-5}\,\mathrm{R}_\odot = 11.1$ km is the NS model. The jet radial velocity is given by $v_{\rm jet} = Q_{\rm eff}\sqrt{GM_2/R_2}$.

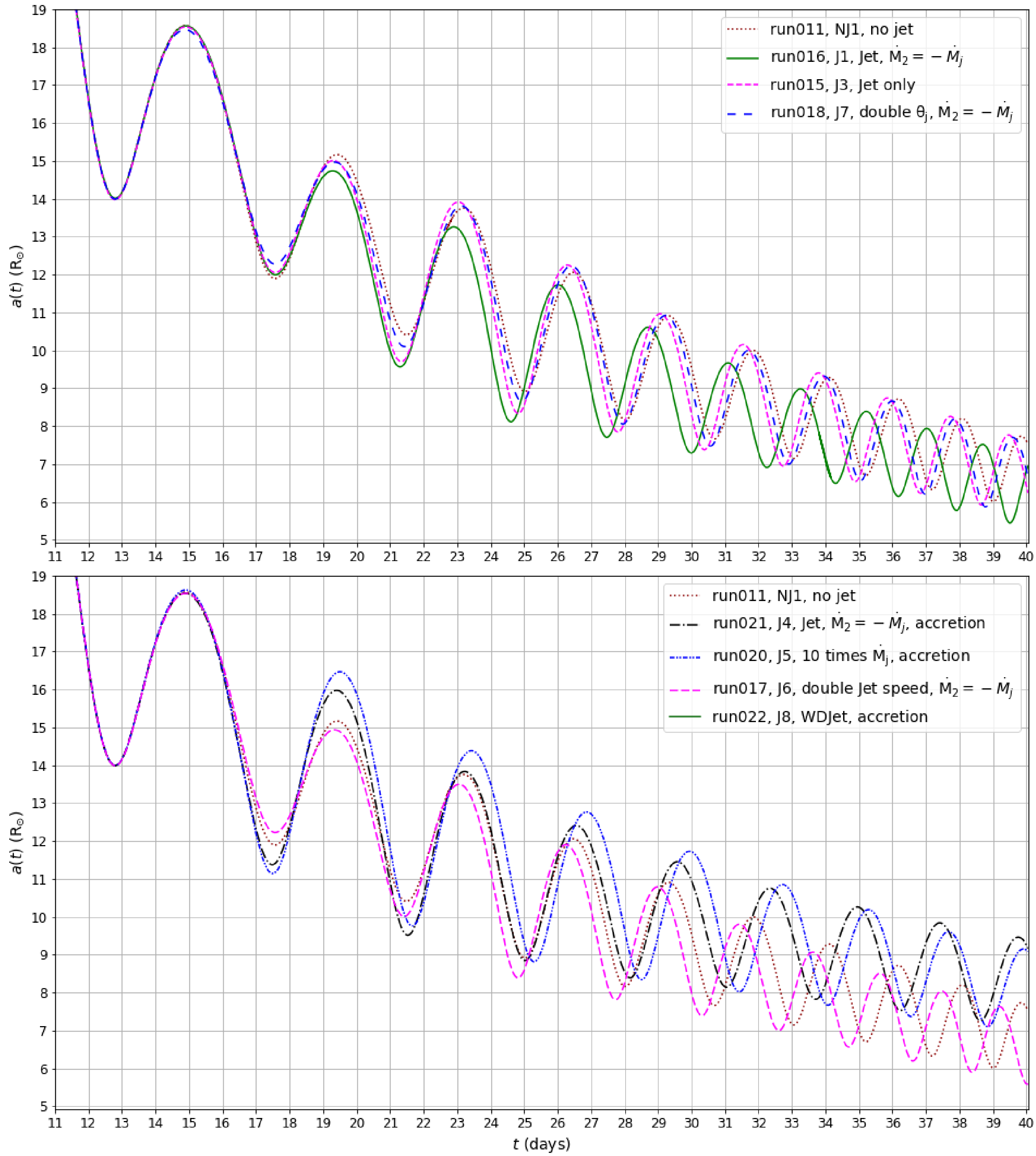

Figure 1. Inter-particle separation in the orbital plane for the five models.

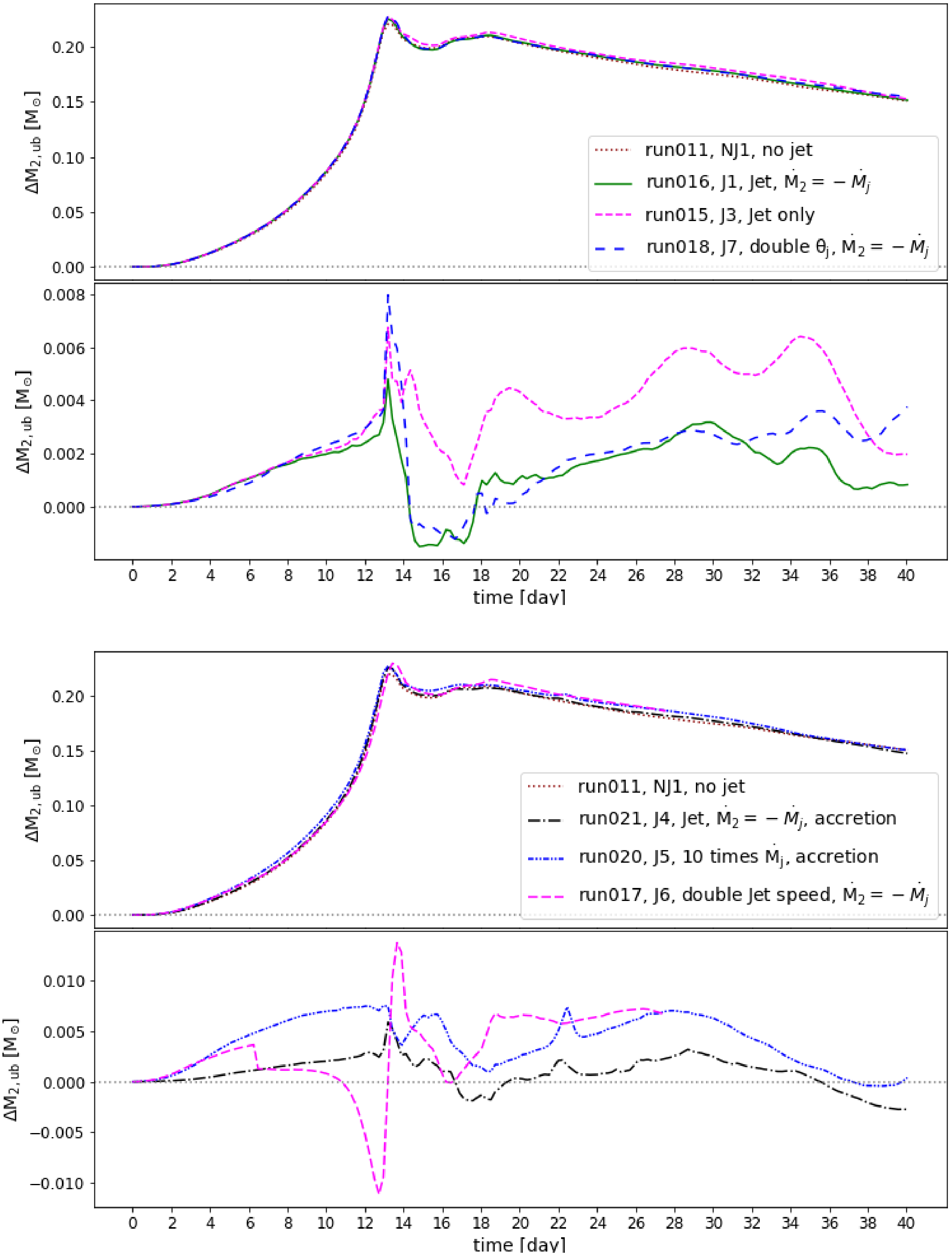

Figure 2. Change in total unbound mass in the simulation (jet material included).

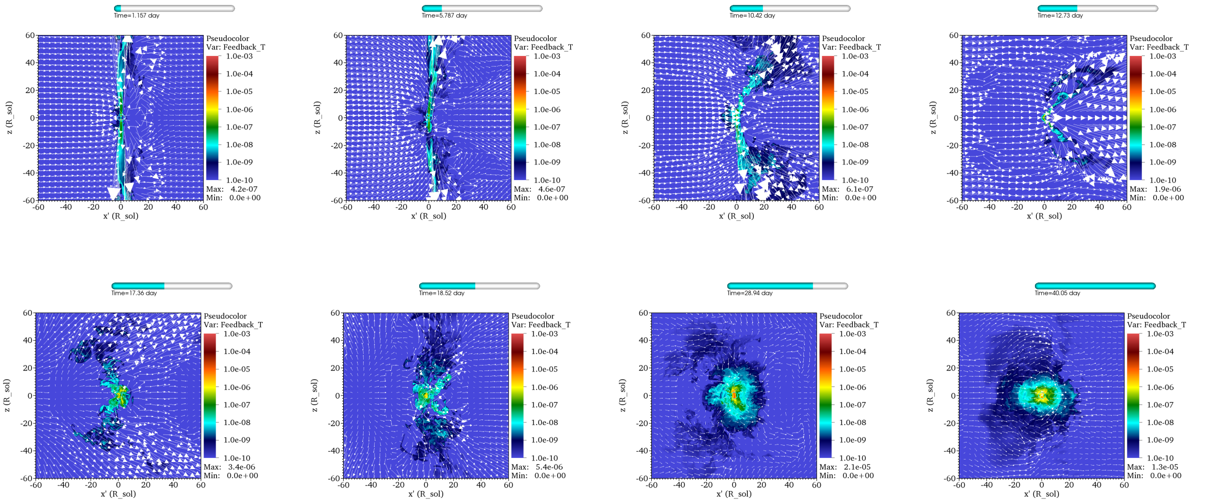

Figure 3. J1, run 016. Jet tracer density, with vectors of velocity relative to the companion.

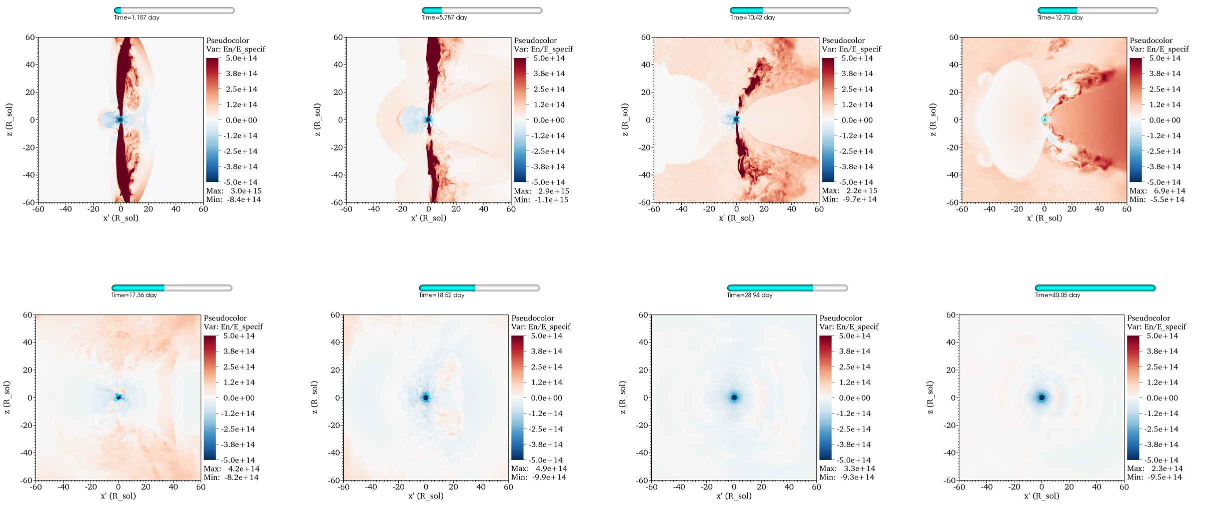

Figure 4. J1, run 016. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

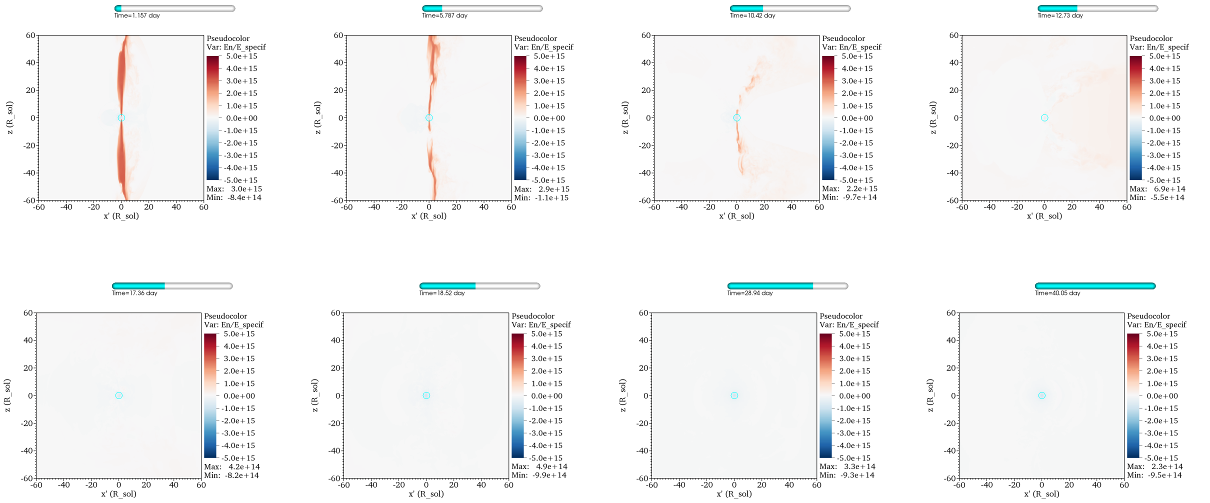

Figure 5. J1, run 016. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

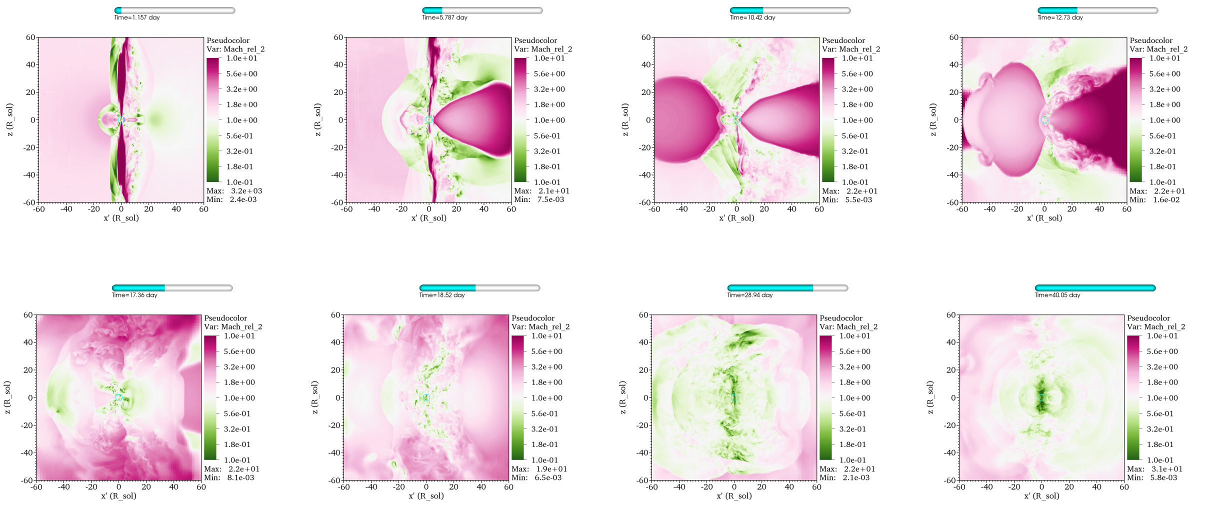

Figure 6. J1, run 016. Mach number relative to the companion.

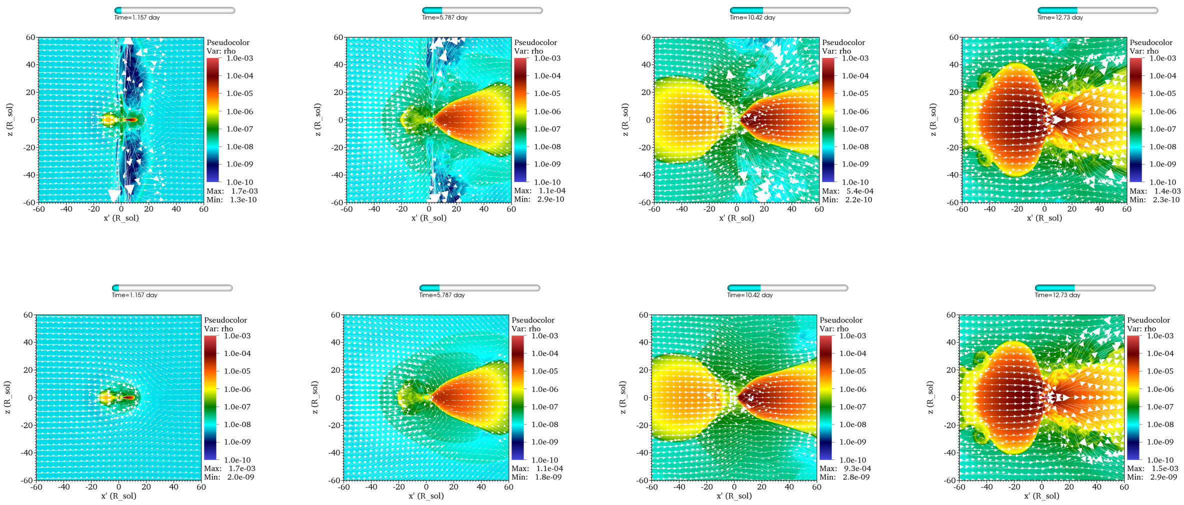

Figure 7. J1, run 016. Gas density with velocity vectors relative to the companion, comparing to the no jet case (bottom row).

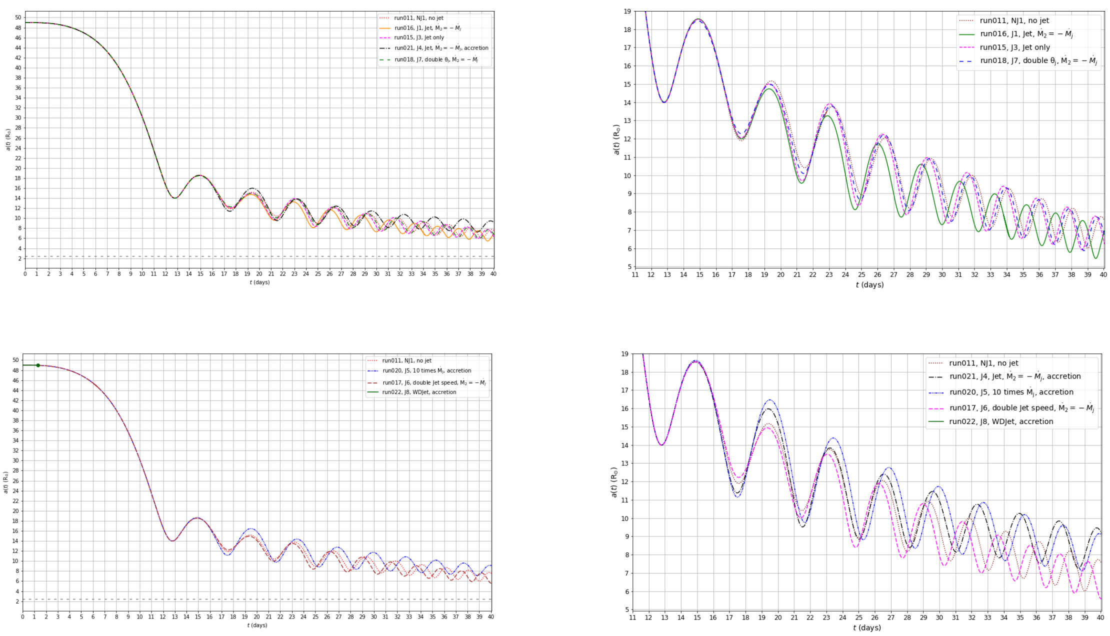

Figure 8. Separation versus time

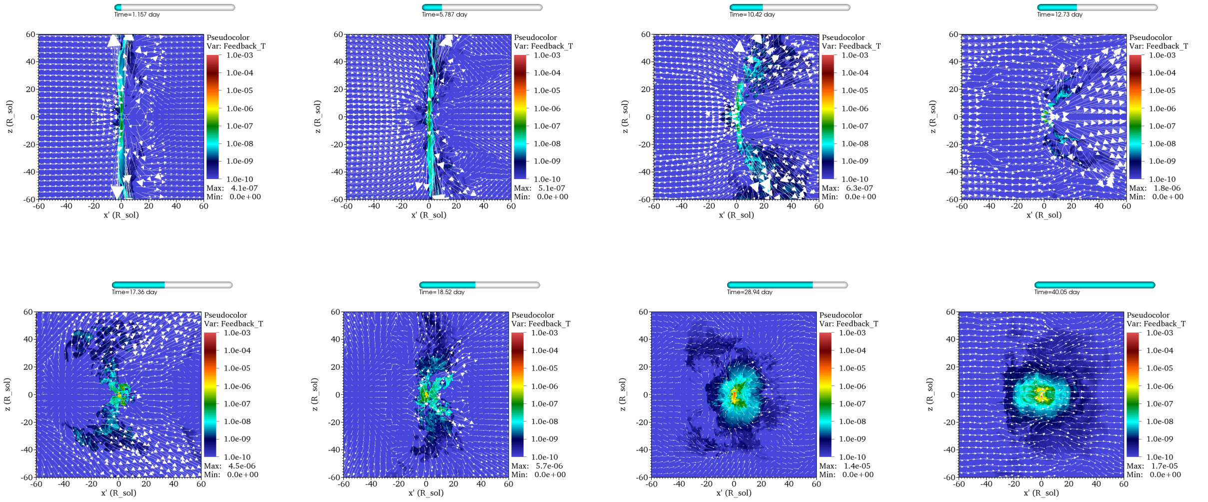

Figure 9. J3, run015. Jet tracer density, with vectors of velocity relative to the companion.

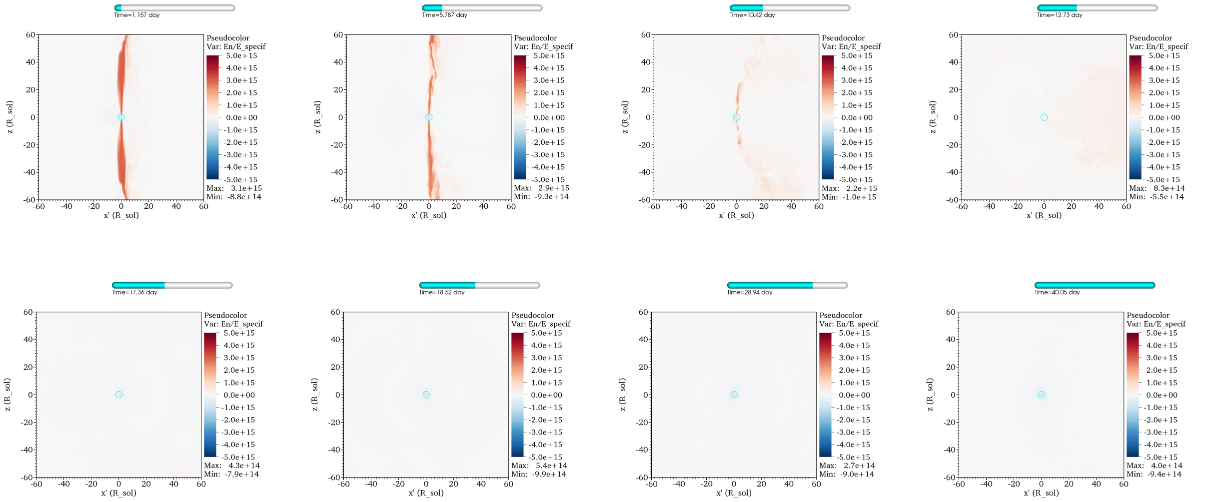

Figure 10. J3, run015. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

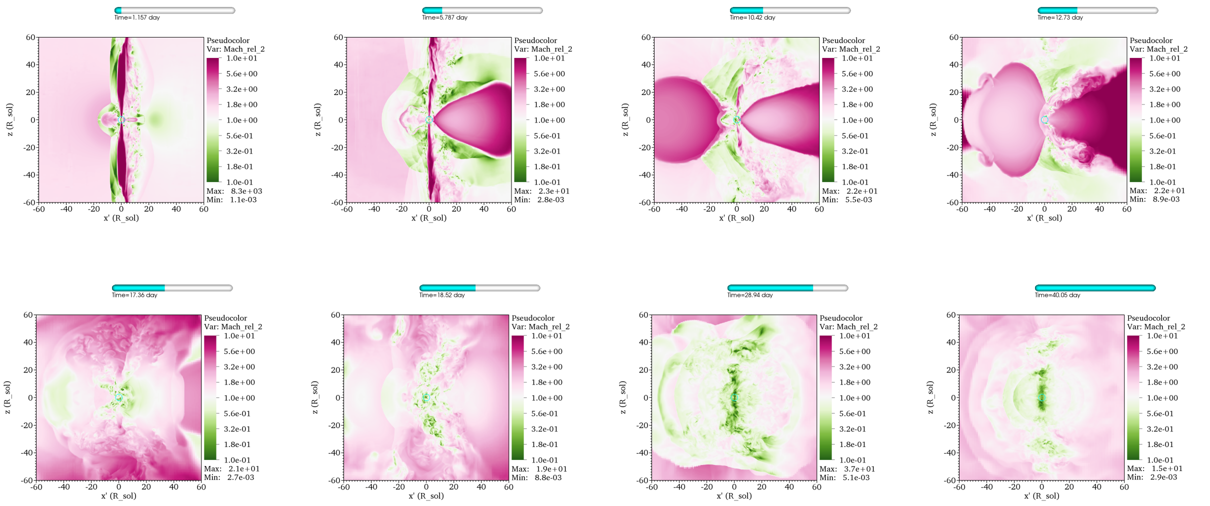

Figure 11. J3, run015. Mach number relative to the companion.

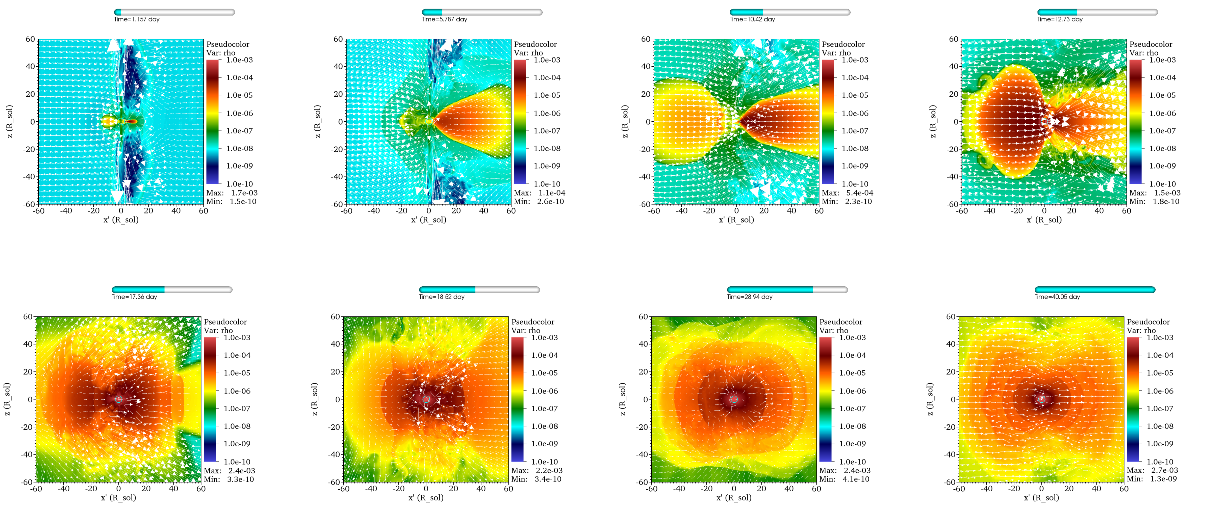

Figure 12. J3, run015. Gas density with velocity vectors relative to the companion.

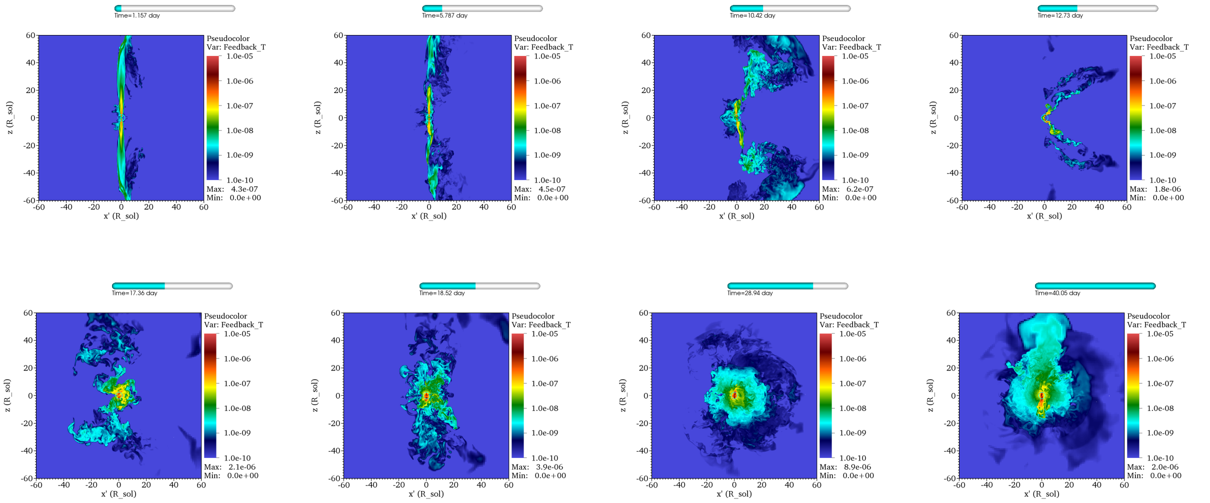

Figure 13. J4, run021. Jet tracer density.

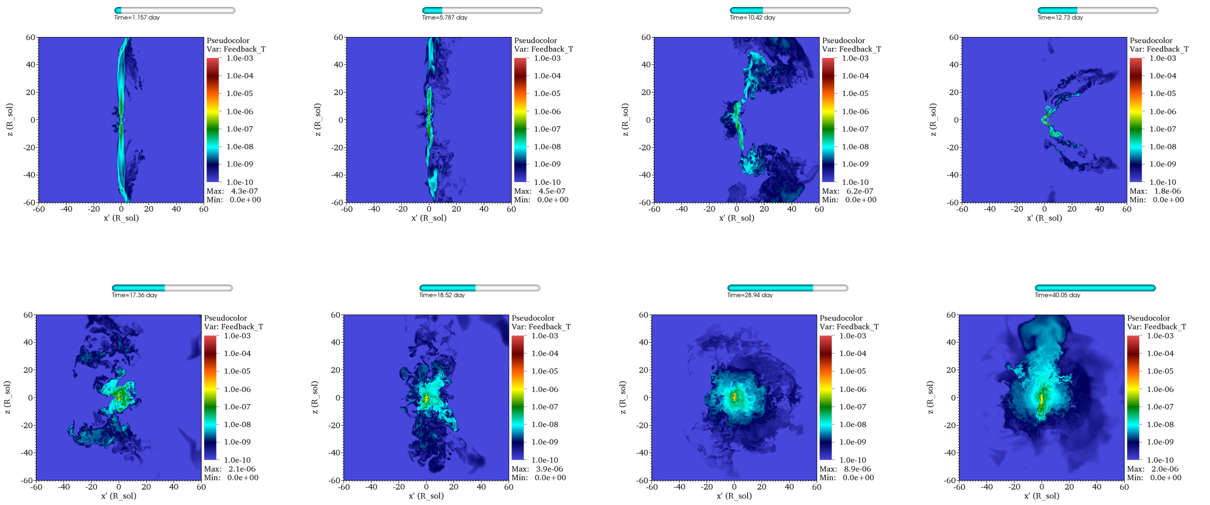

Figure 14. J4, run021. Jet tracer density, with vectors of velocity relative to the companion.

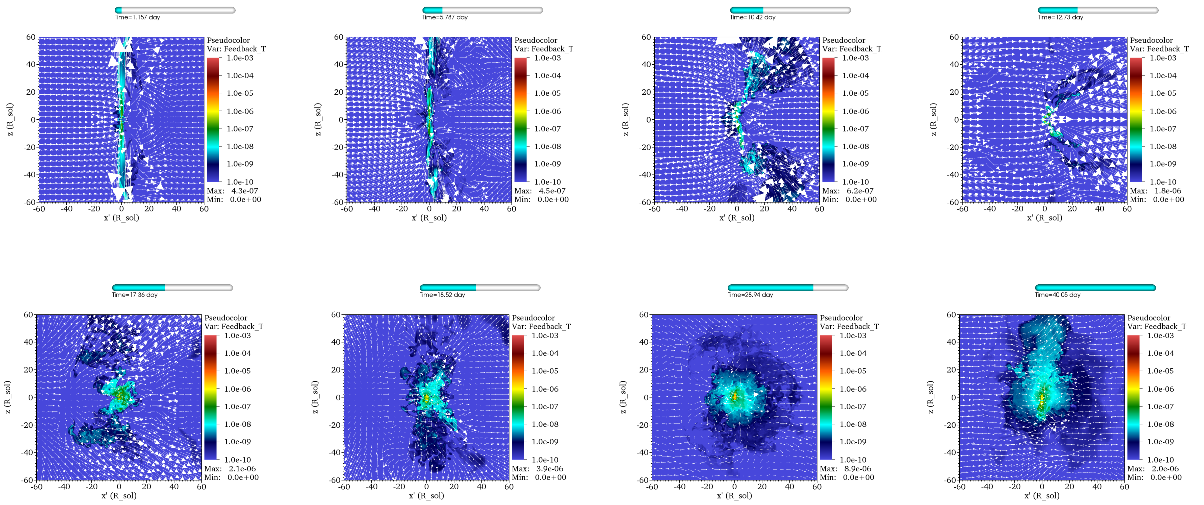

Figure 15. J4, run021. Jet tracer density, with vectors of velocity relative to the companion.

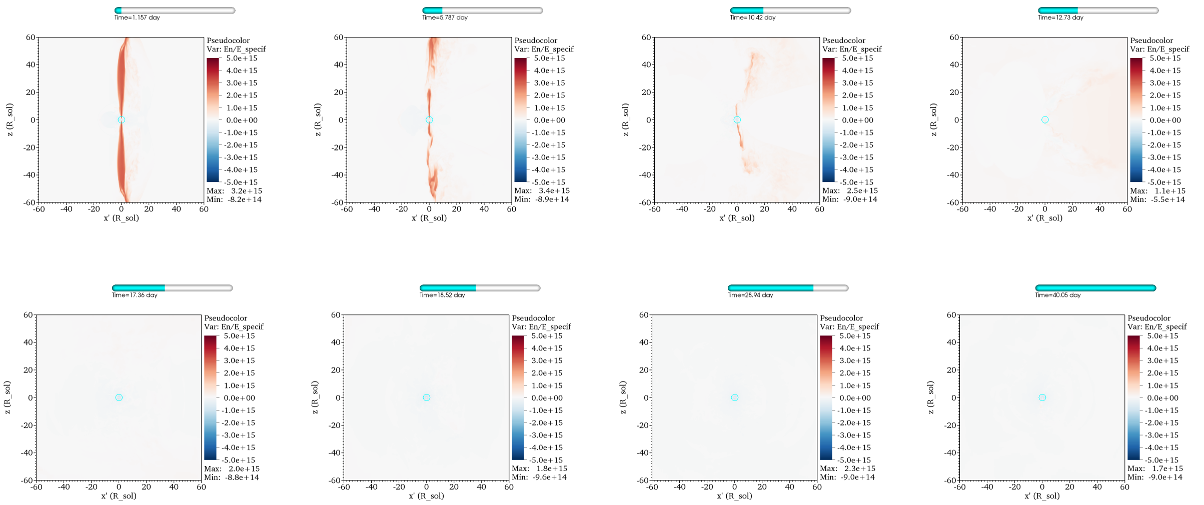

Figure 16. J4, run021. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

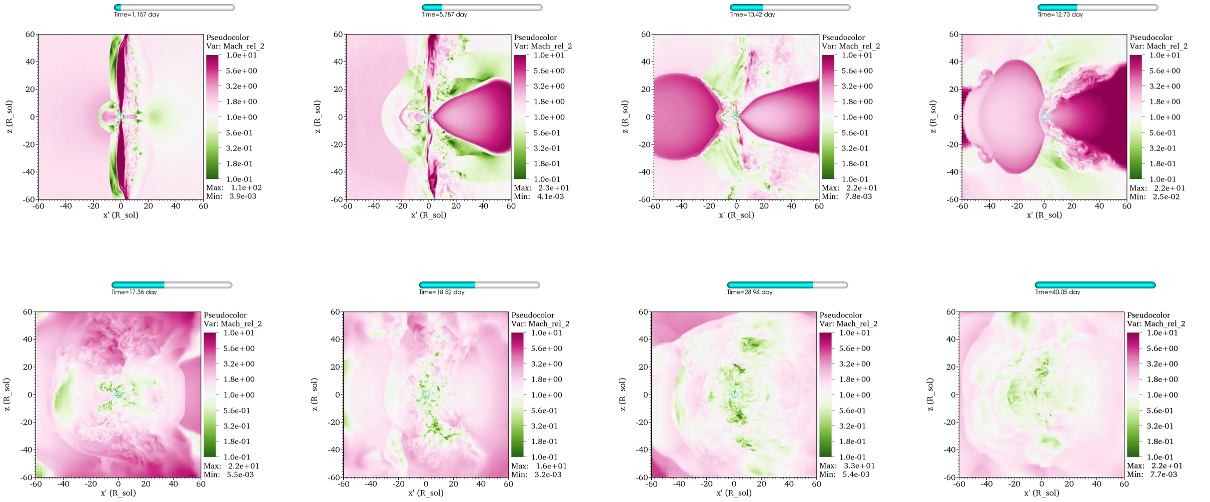

Figure 17. J4, run021. Mach number relative to the companion.

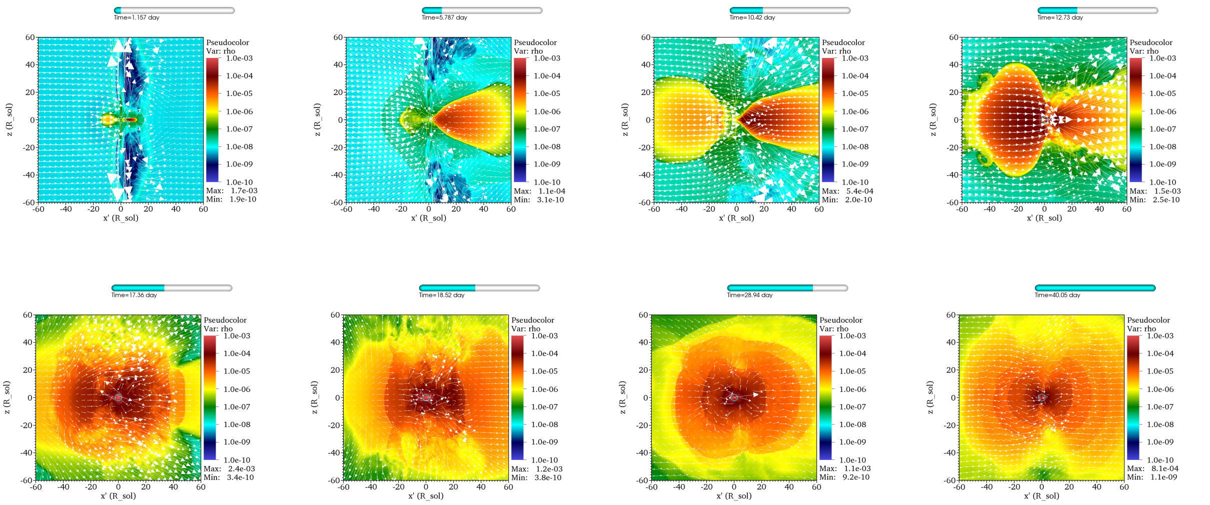

Figure 18. J4, run021. Gas density with velocity vectors relative to the companion.

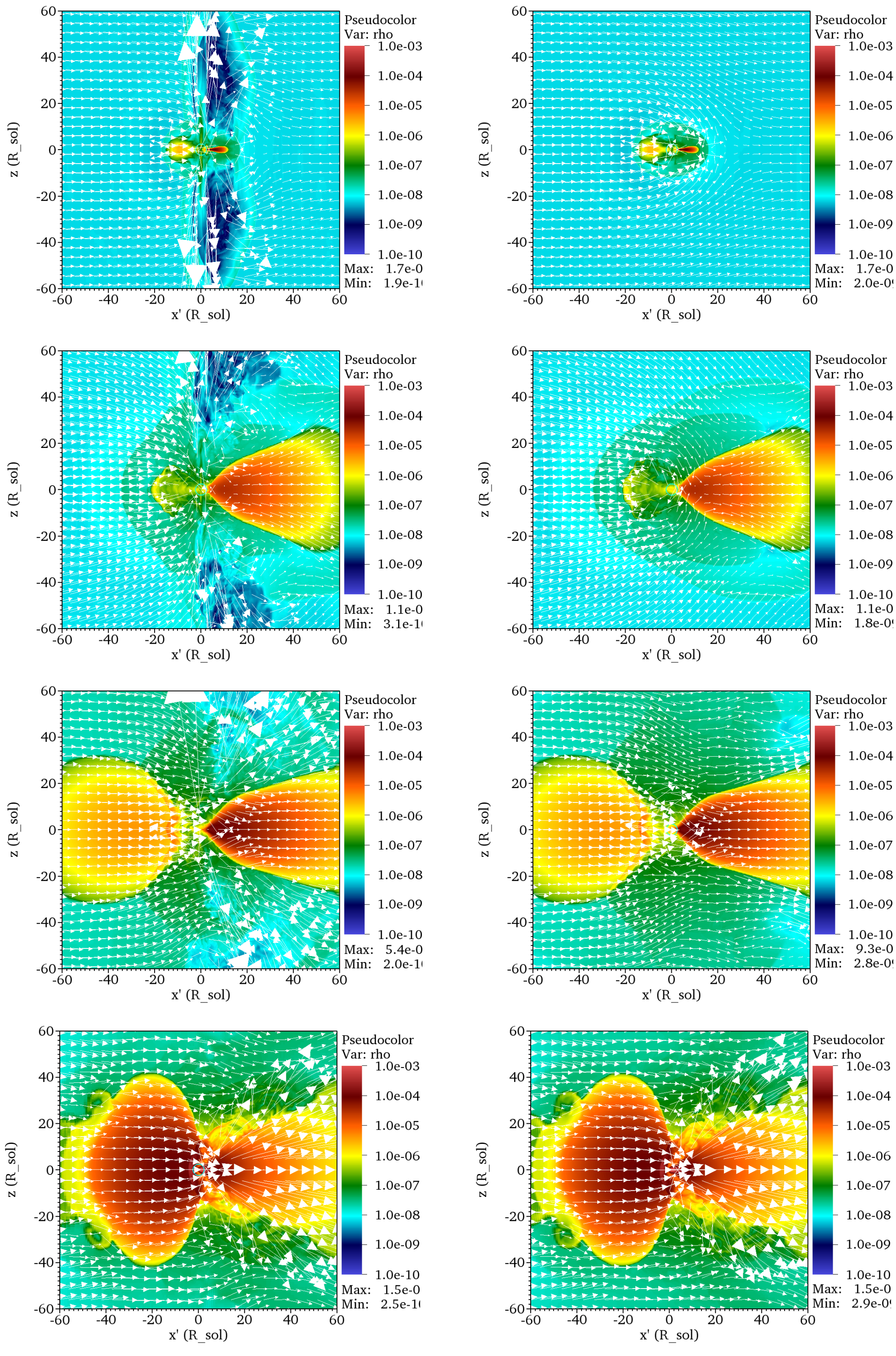

Figure 19. Left: J4, run021. Right: NJ1, run011. Gas density with velocity vectors relative to the companion.

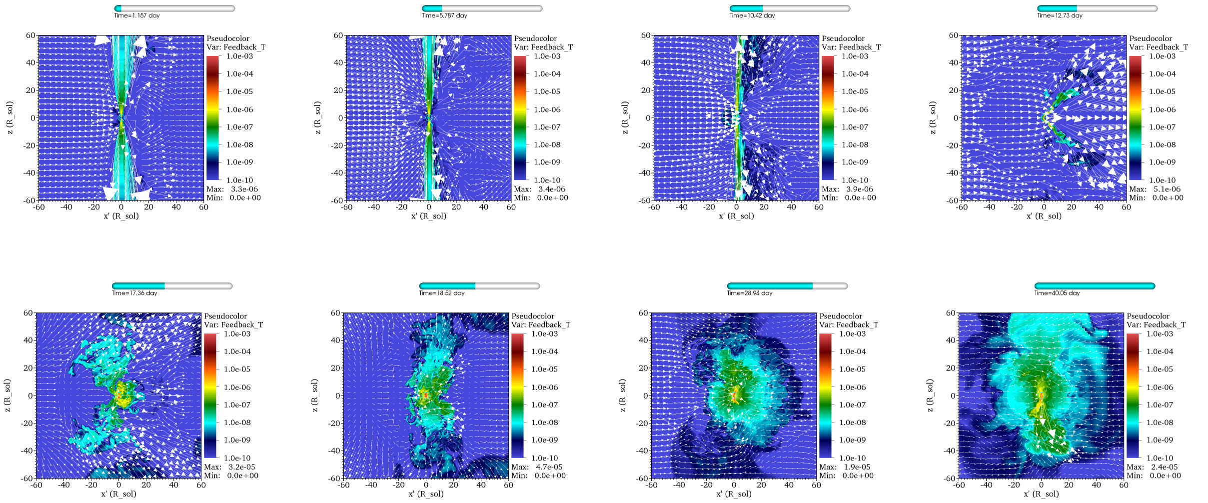

Figure 20. J5, run020. Jet tracer density, with vectors of velocity relative to the companion.

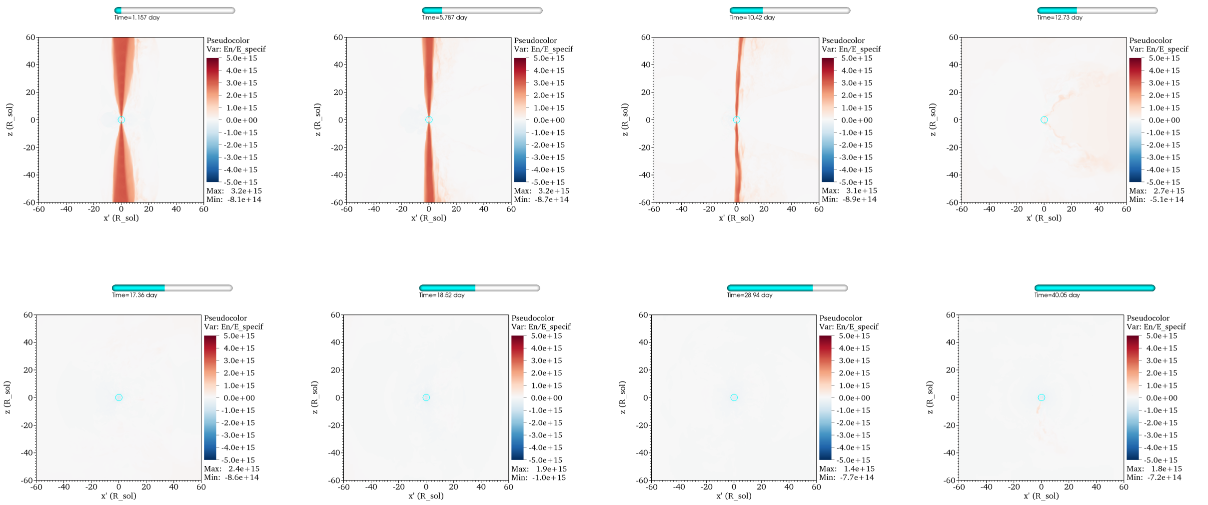

Figure 21. J5, run020. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

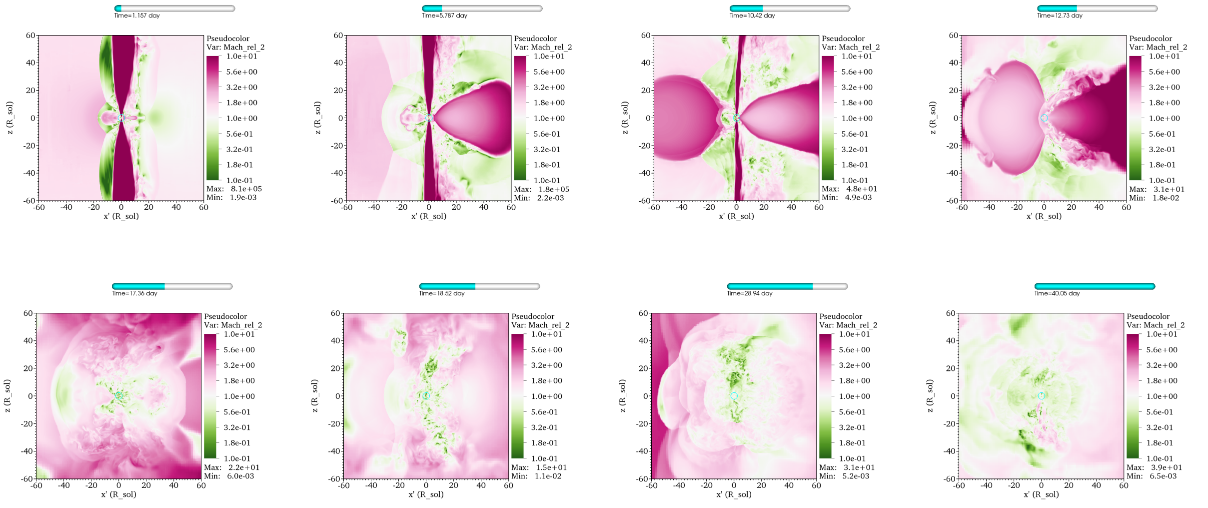

Figure 22. J5, run020. Mach number relative to the companion.

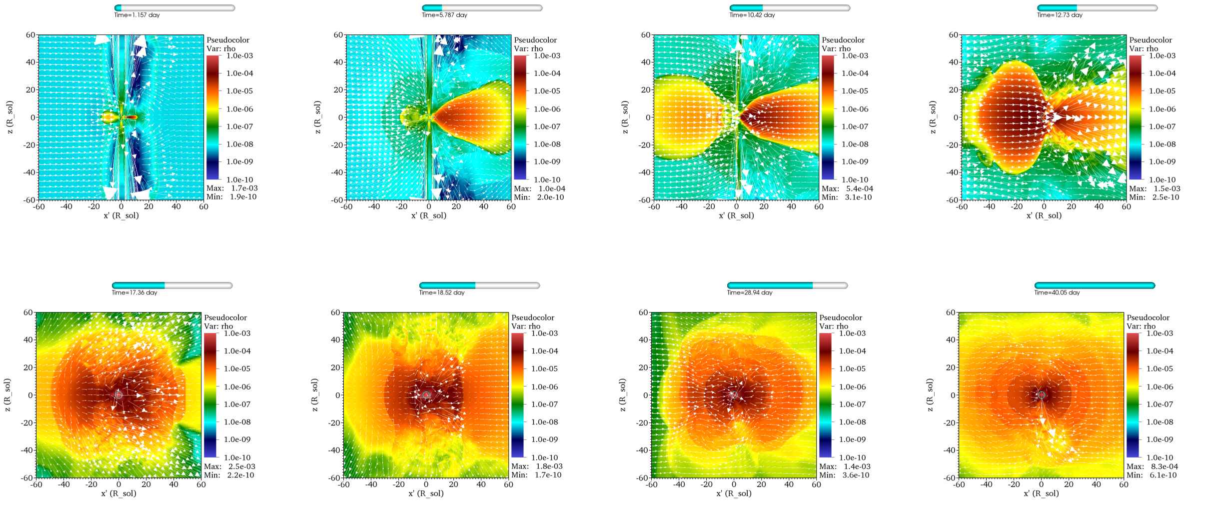

Figure 23. J5, run020. Gas density with velocity vectors relative to the companion.

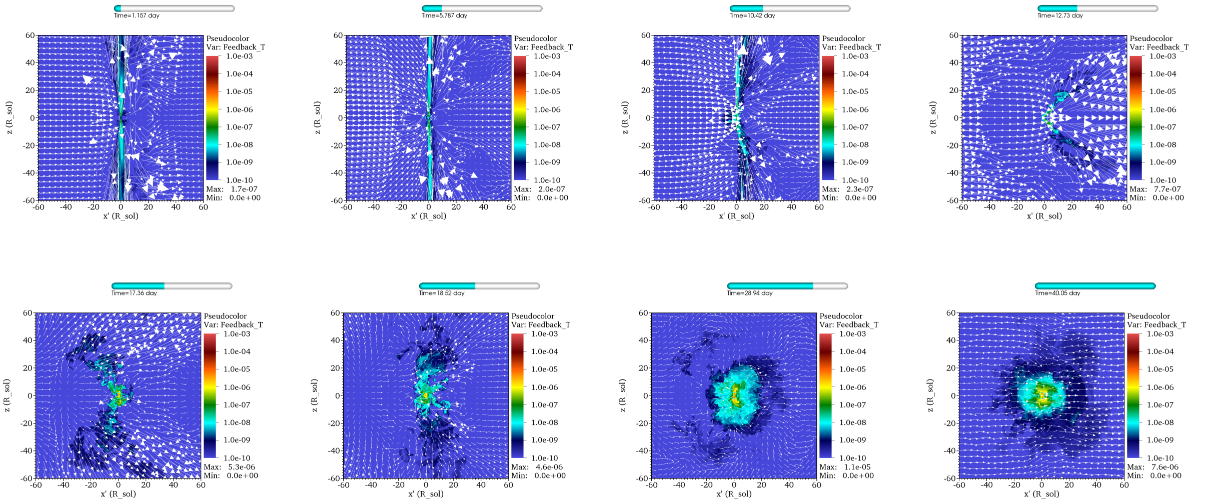

Figure 24. J6, run017. Jet tracer density, with vectors of velocity relative to the companion.

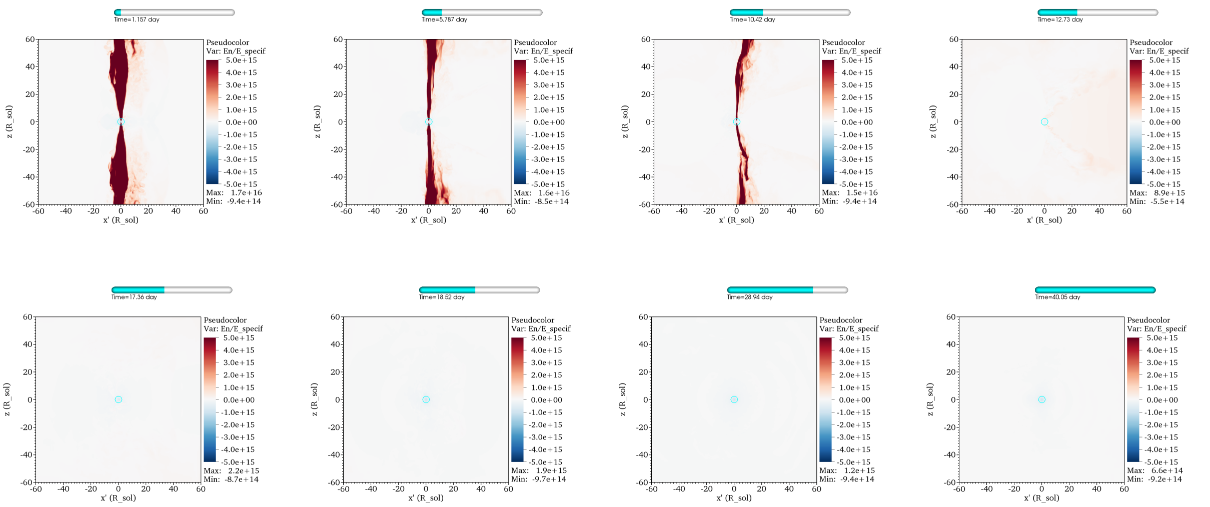

Figure 25. J6, run017. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

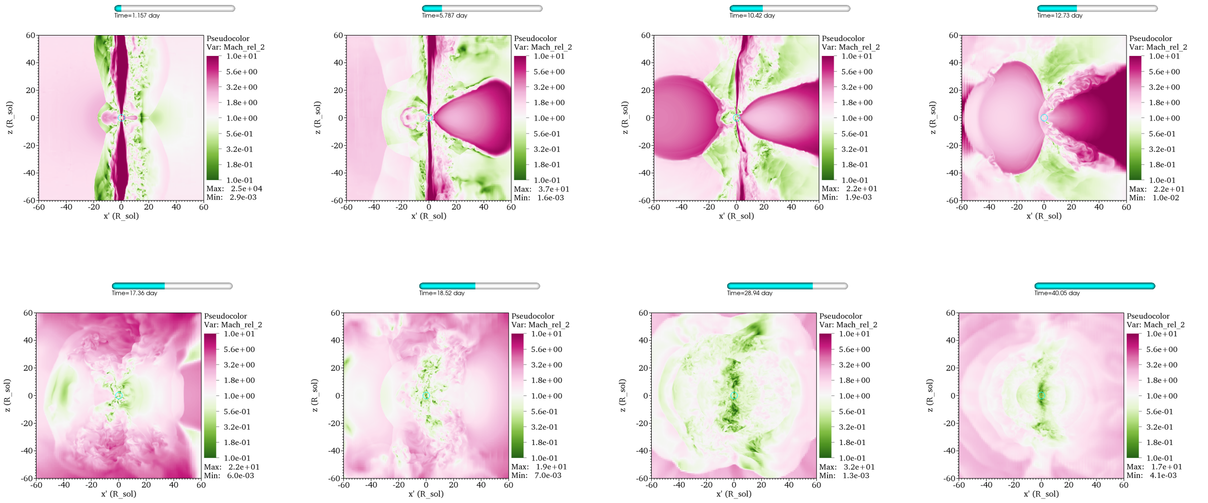

Figure 26. J6, run017. Mach number relative to the companion.

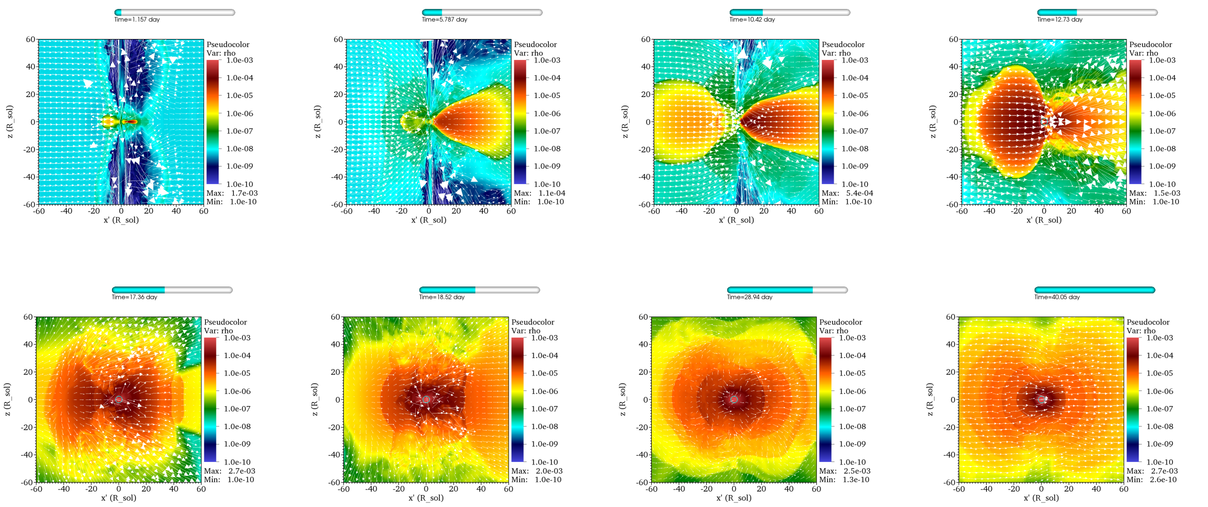

Figure 27. J6, run017. Gas density with velocity vectors relative to the companion.

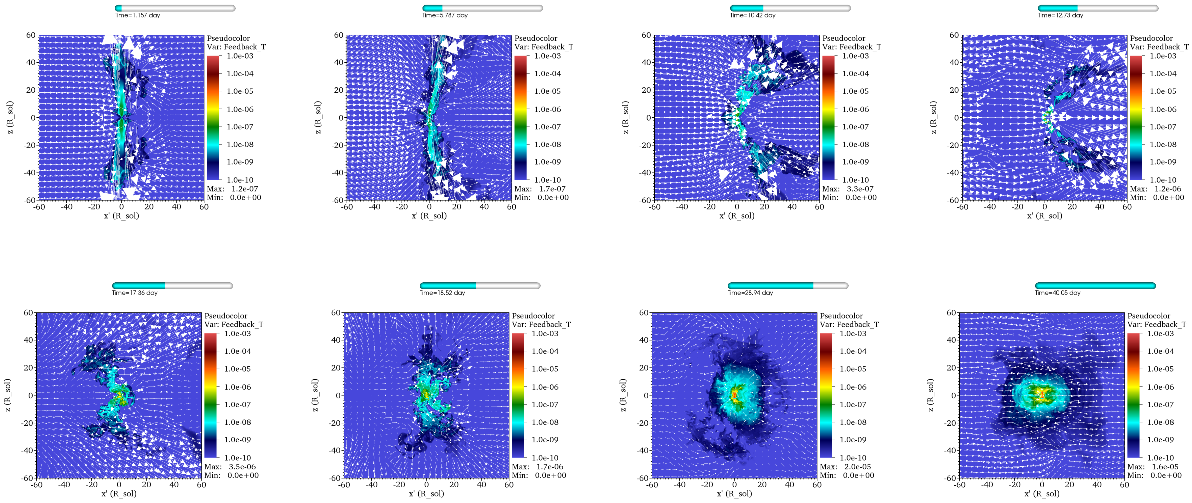

Figure 28. J7, run018. Jet tracer density, with vectors of velocity relative to the companion.

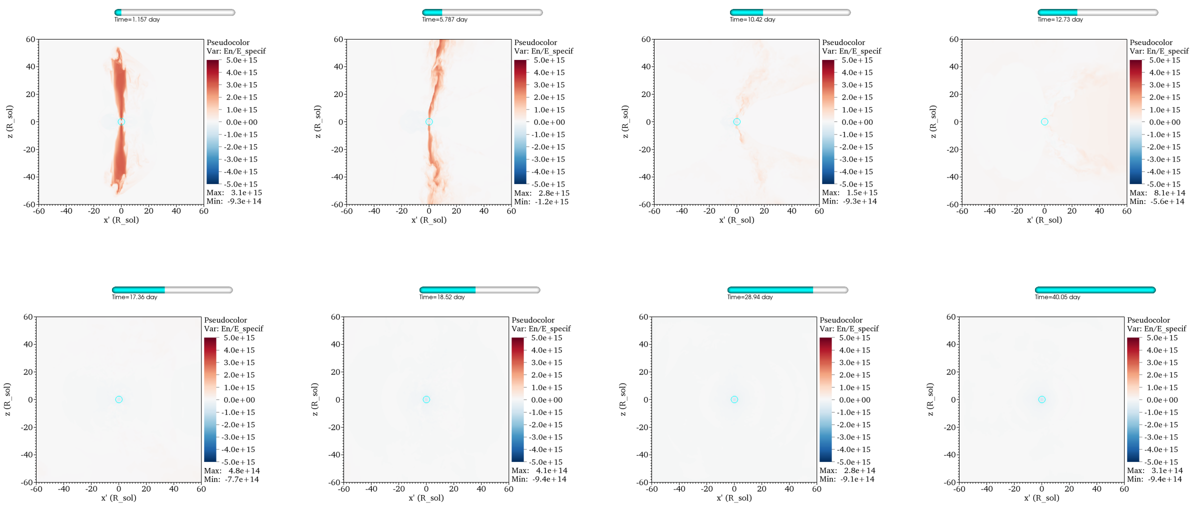

Figure 29. J7, run018. Specific energy of jet material relative to the companion (Ek_rel_2+Ep_rel_2+Eint)

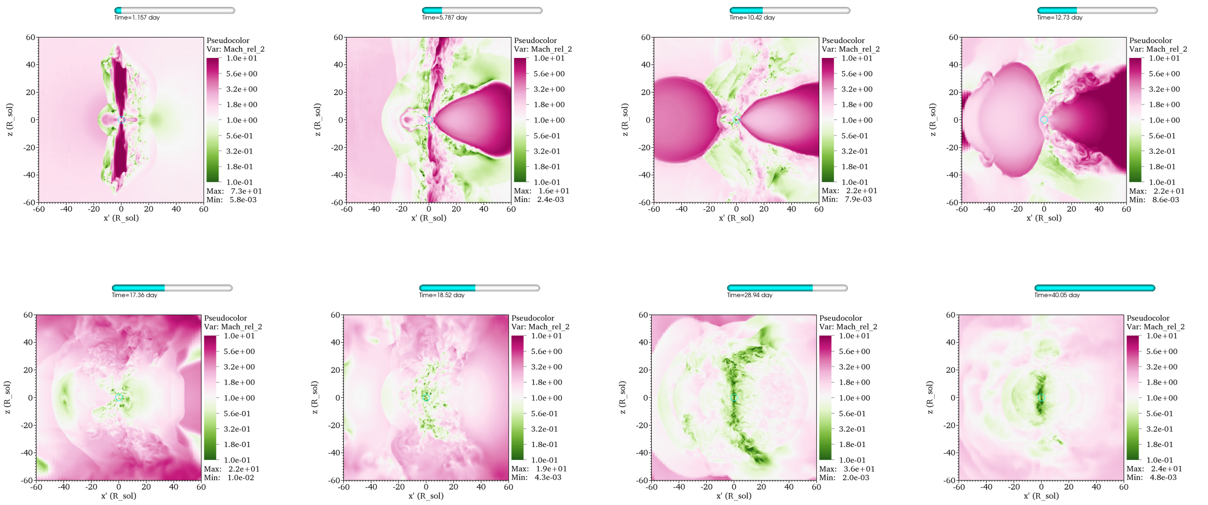

Figure 30. J7, run018. Mach number relative to the companion.

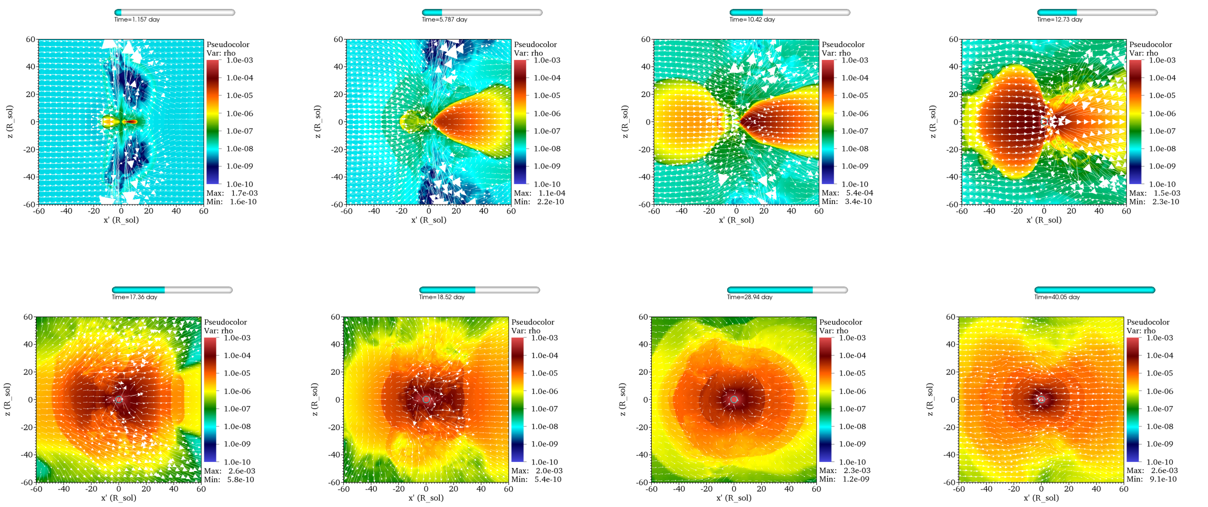

Figure 31. J7, run018. Gas density with velocity vectors relative to the companion.

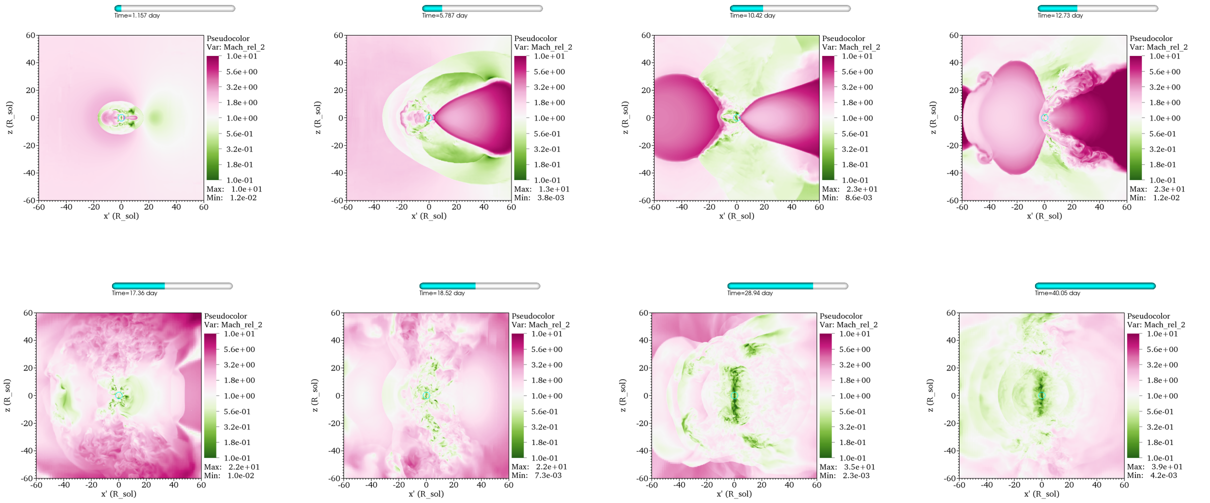

Figure 32. NJ1, run011. Mach number relative to the companion.

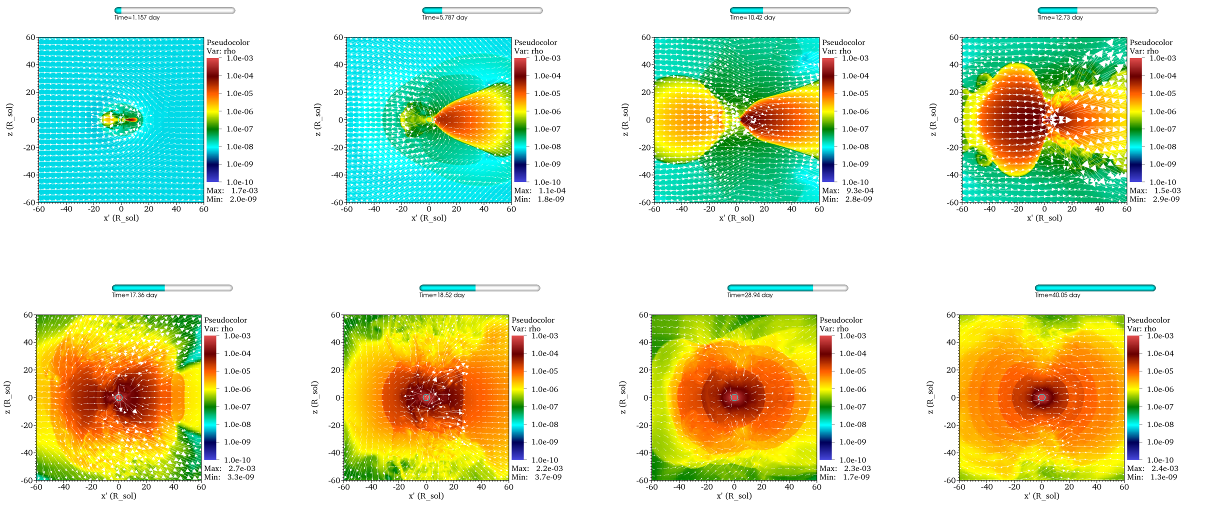

Figure 33. NJ1, run011. Gas density with velocity vectors relative to the companion.

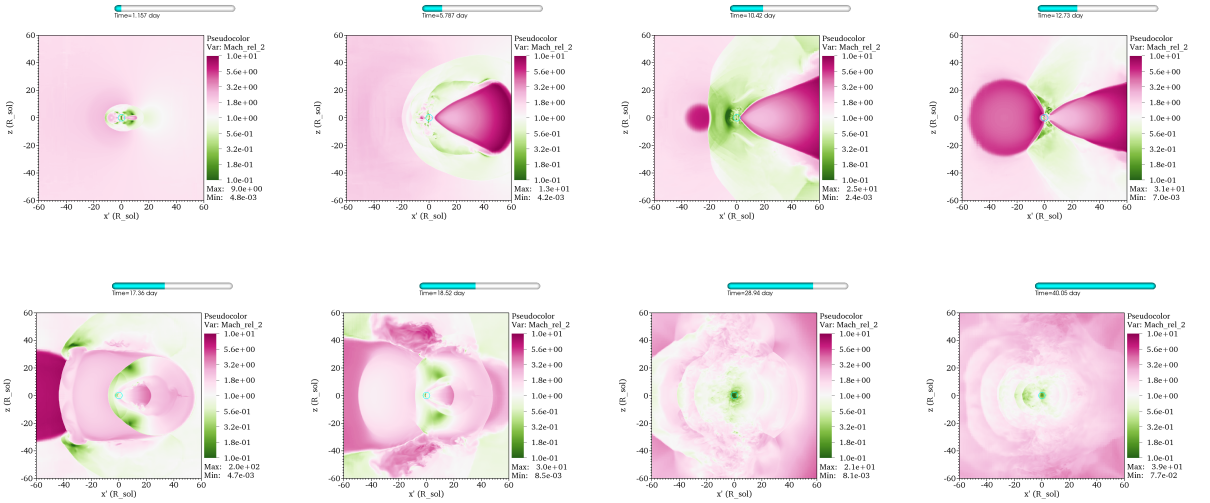

Figure 34. NJ2, run013. Mach number relative to the companion.

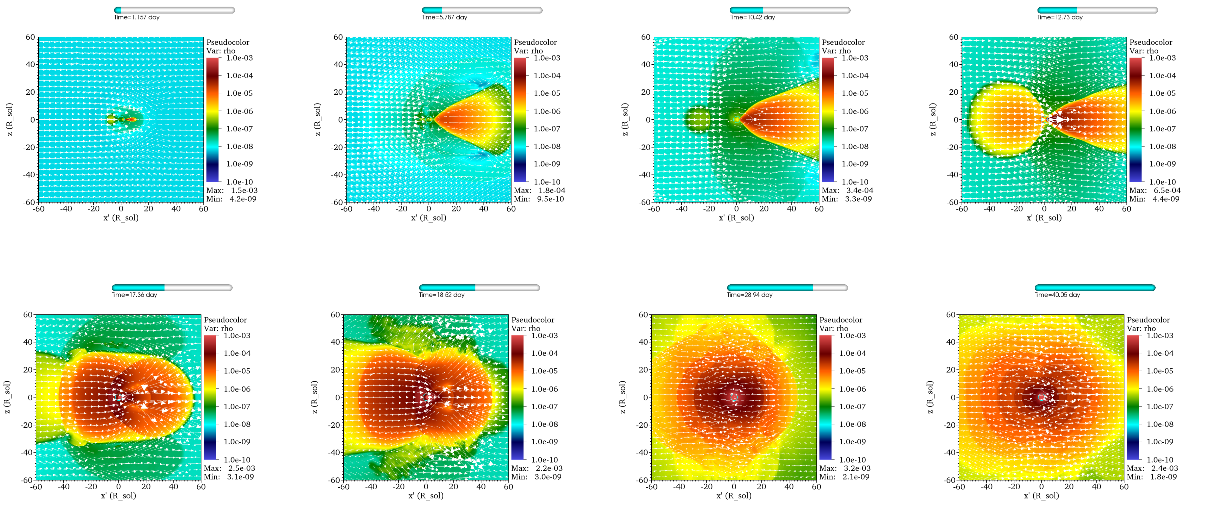

Figure 35. NJ2, run013. Gas density with velocity vectors relative to the companion.