$au_{sp} = 1$ ,  $N_{p,lim} = 10$ ,  $\tau_{ps} = 0.7$ ,  $\Gamma_{s} = 20$ ],  $N_{w,lim} \in [0, 10]$   $au_{ws} = 1$ ,  $au_{s} = 1$ ,  $N_{p,0} = 0$ ,  $N_{s,0} = 1$ .,  $N_{wm,0} = 0$ N\_p N\_s  $N_{\underline{\phantom{M}}}$ w