dN = -GPE N+KPE - GPS N+KPS PS = 0) $\frac{dPS}{dt} = G_{PS} \frac{N}{N + K_{PS}} PS - m_{PS} PS = 0$ $\frac{dPE}{dt} = G_{PE} \frac{N}{N + K_{PE}} PE - m_{PE} PE = 0$ $\frac{dPE}{dt} = G_{PE} \frac{N}{N + K_{PE}} PE - m_{PE} PE = 0$ 1. Solve P equations independently b/c they're constant & = 0 a) $PS\left(G_{ps} \frac{N}{N+K_{ps}}\right) - m_{ps} = 0$ P=0 $G_{ps} \frac{N}{N+K_{ps}} - m_{ps} = 0$ When too - day $\frac{N}{N+K_{ps}} = \frac{m_{ps}}{G_{ps}}$ $N = \frac{m_{ps}}{G_{ps}} N + \frac{m_{ps}}{G_{ps}} K_{ps}$ $N\left(1-\frac{m_{ps}}{G_{ps}}\right) = \frac{m_{ps}}{G_{ps}} K_{ps}$ Attenuation coefficient $N = \frac{m_{ps}}{G_{ps}} K_{ps}$ $\left(1 - \frac{m_{ps}}{G_{ps}}\right)$ 6 Kps = 0.05 m Gps = 52.5 day -1 $m_{ps} = 0.1 day^{-1}$ Nx bigger = loses

