

**Table S1. All models.**

<b>Model*</b>	<b>Growth</b>	<b>Division</b>	<b>Loss</b>
$m_{\text{bmx}}$	basic	monotonic	x (no loss)
$m_{\text{bmb}}$	basic	monotonic	basic
$m_{\text{pmb}}$	power-law size-dependence	monotonic	basic
$m_{\text{fmb}}$	free size-dependence	monotonic	basic
$m_{\text{fmf}}$	free size-dependence	monotonic	free size-dependence
$m_{\text{btb}}$	basic	time-dependent	basic
$m_{\text{ptb}}$	power-law size-dependence	time-dependent	basic
$m_{\text{ftb}}$	free size-dependence	time-dependent	basic
$m_{\text{ftf}}$	free size-dependence	time-dependent	free size-dependence

\*The letters in the subscript of the model name denote the growth, division, and loss parameterizations used in the model, respectively.