

CO-OCCURRENCE MATRIX
SPECIES

1: IS THERE
0: IS NOT THERE

LOCATION

	1	1	
0	0		

⊗ CHECKBOARD MATRICES

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} \leftrightarrow \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

LET $C(M)$ BE NUMBER OF
CHECKERBOARDS

USING NCML, SIMULATE: USE A PROPER FUNCTION WHERE
YOU SWITCH A CHECKERBOARD

$$\rho = \min \left(1, \frac{\pi(M_{\text{new}}) \alpha(M/M_{\text{new}})}{\pi(M) \alpha(M_{\text{new}}/M)} \right) = \min \left(1, \frac{1/C(M_{\text{new}})}{1/C(M)} \right) = \min \left(1, \frac{C(M)}{C(M_{\text{new}})} \right)$$