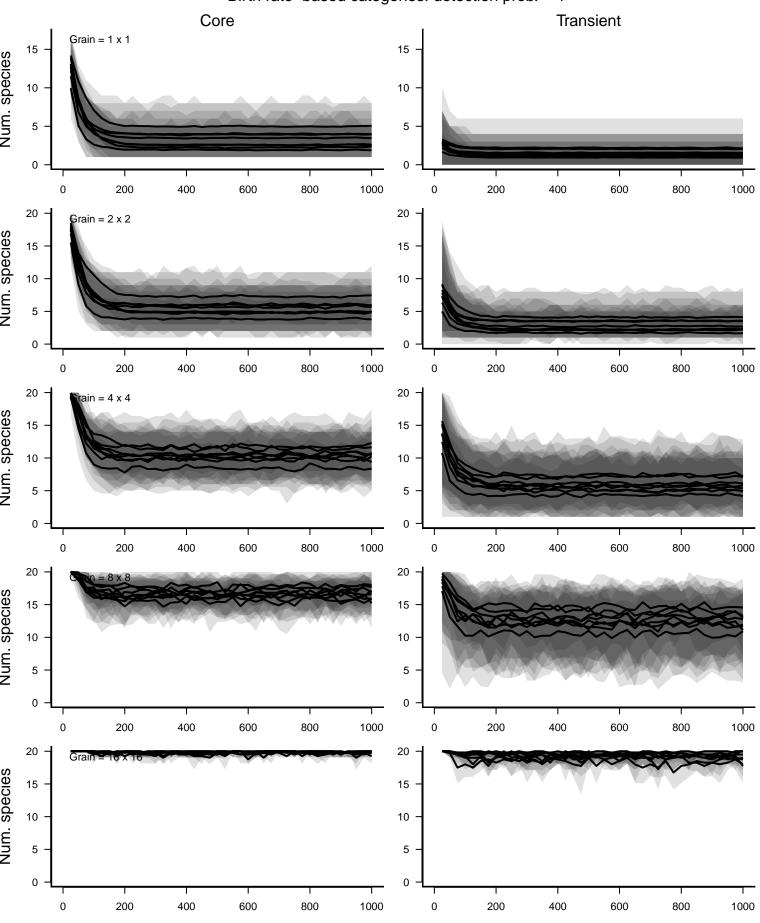
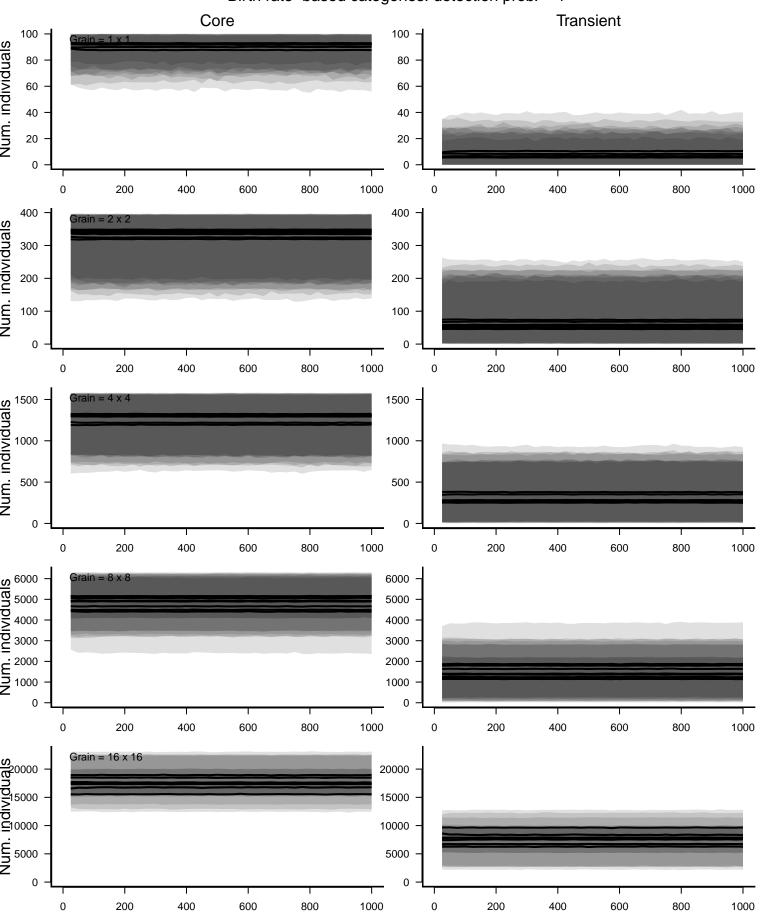
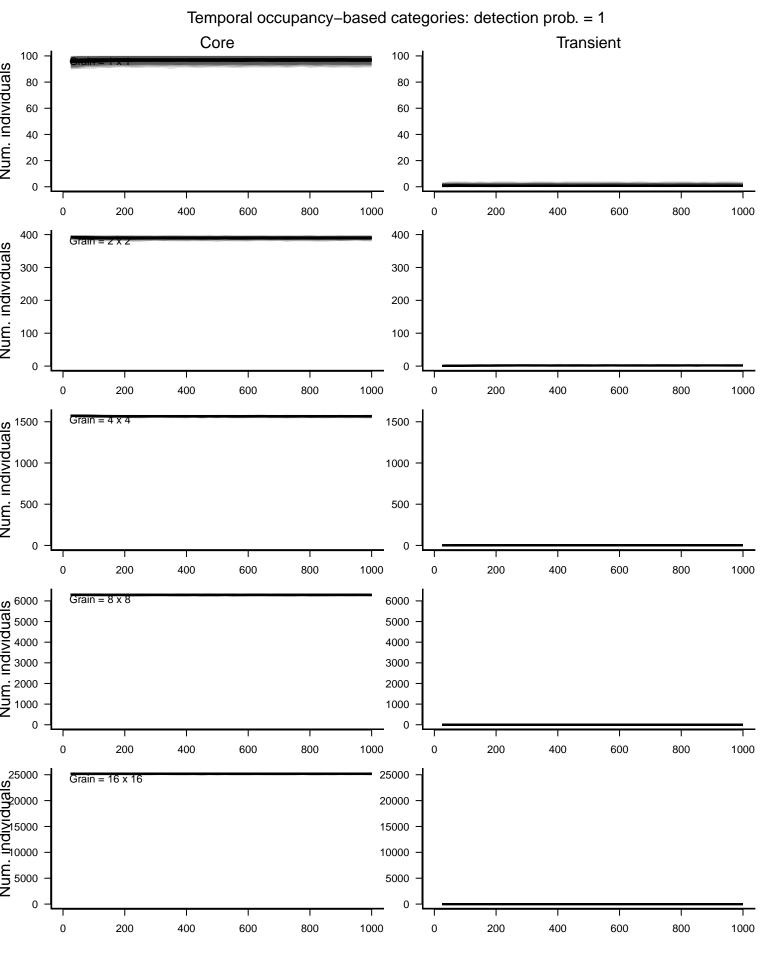
Birth rate-based categories: detection prob. = 1



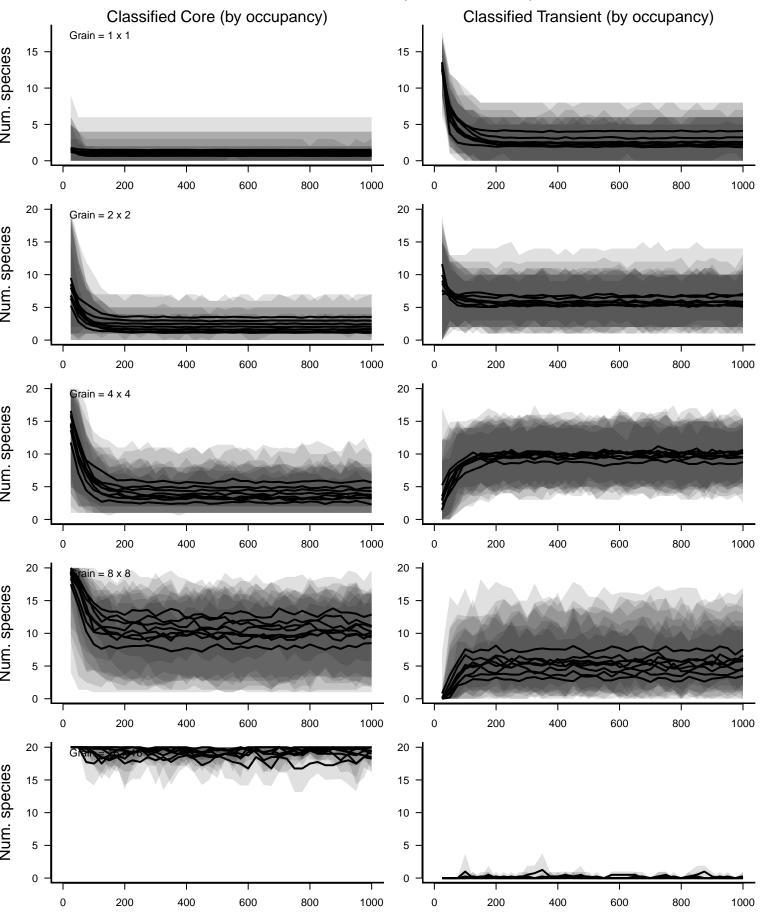
Birth rate-based categories: detection prob. = 1





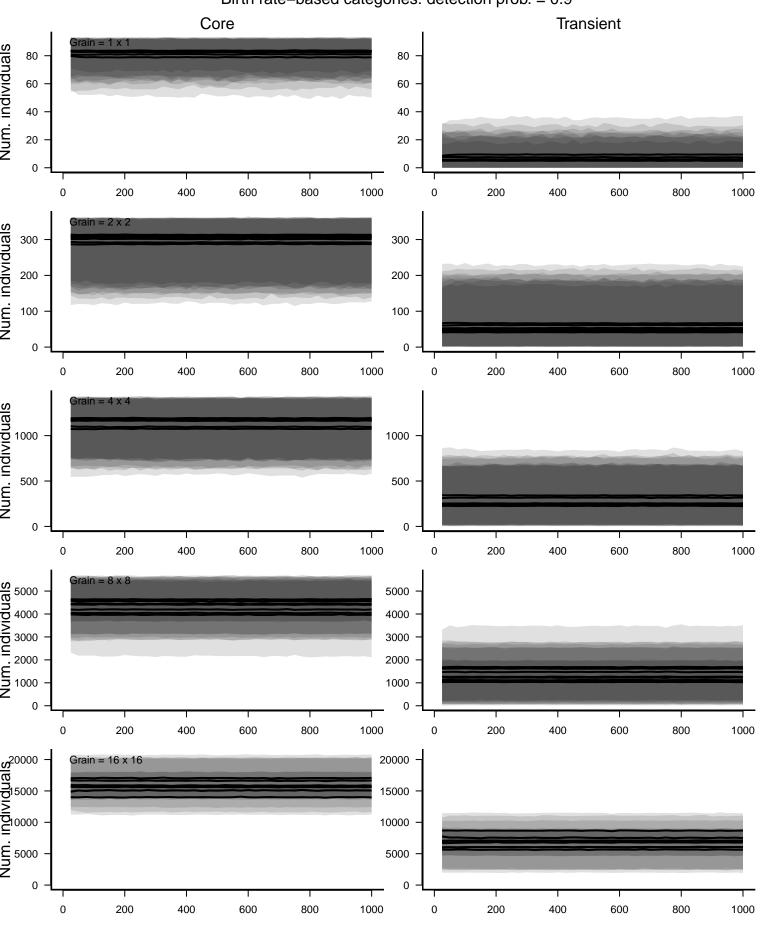
Birth rate-based Core Species: detection prob. = 1 Classified Transient (by occupancy) Classified Core (by occupancy) Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 Num. species 20 -Num. species 20 -Grain =  $16 \times 16$ Num. species 

Birth rate-based Transient Species: detection prob. = 1



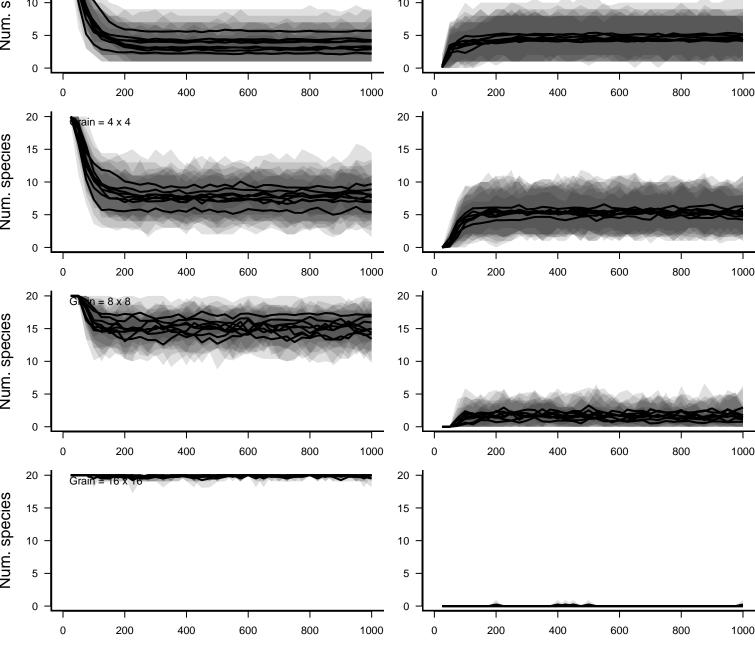
Temporal occupancy-based categories: detection prob. = 0.9 Transient Core 20 -Grain = 1 x 1 Num. species 35 -35 -Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 ain = 8 x 8 Num. species 40 -Num. species 

Birth rate-based categories: detection prob. = 0.9

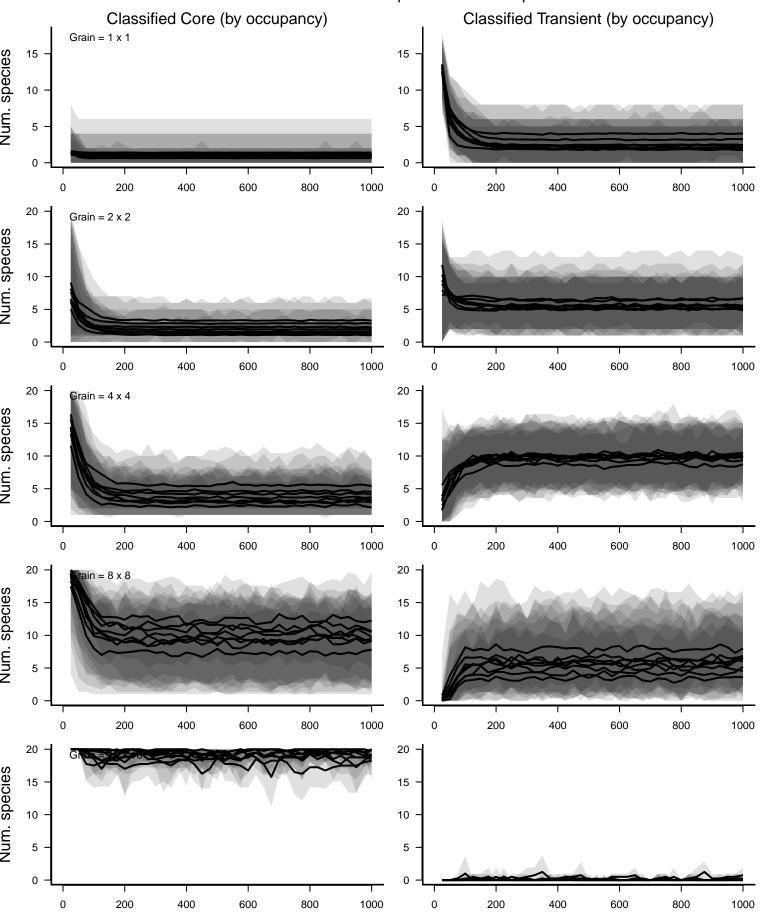


Temporal occupancy-based categories: detection prob. = 0.9 Core Transient Num. Individuals Num. Individuals Num. individuals Grain = 8 x 8 4000 3000 2000 1000 Grain = 16 x 16 Num. individuals 50000 5000 5000 

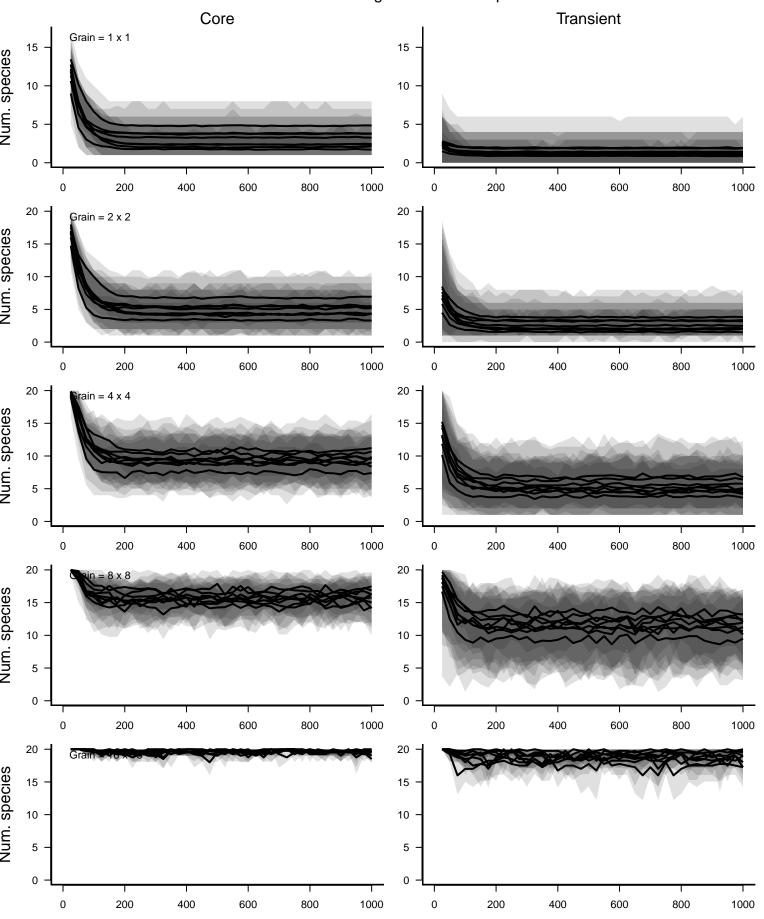
Birth rate-based Core Species: detection prob. = 0.9 Classified Core (by occupancy) Classified Transient (by occupancy) Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 20 -20 -



Birth rate-based Transient Species: detection prob. = 0.9

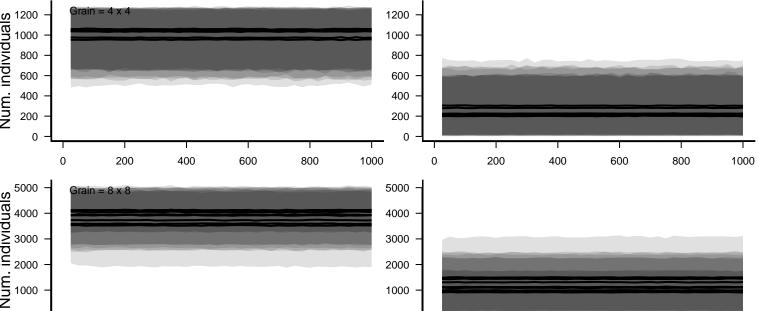


Birth rate-based categories: detection prob. = 0.8



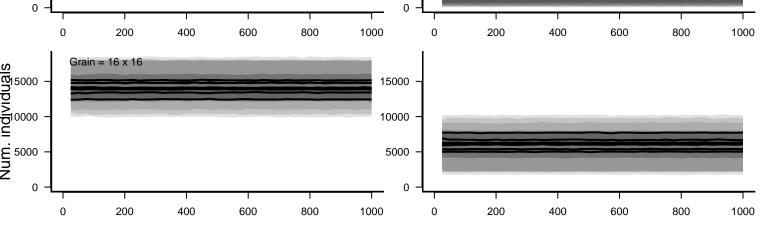
Temporal occupancy-based categories: detection prob. = 0.8 Core Transient Grain = 1 x 1 Num. species Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 ain = 8 x 8 Num. species 40 -Num. species 

Birth rate-based categories: detection prob. = 0.8 Core **Transient** 



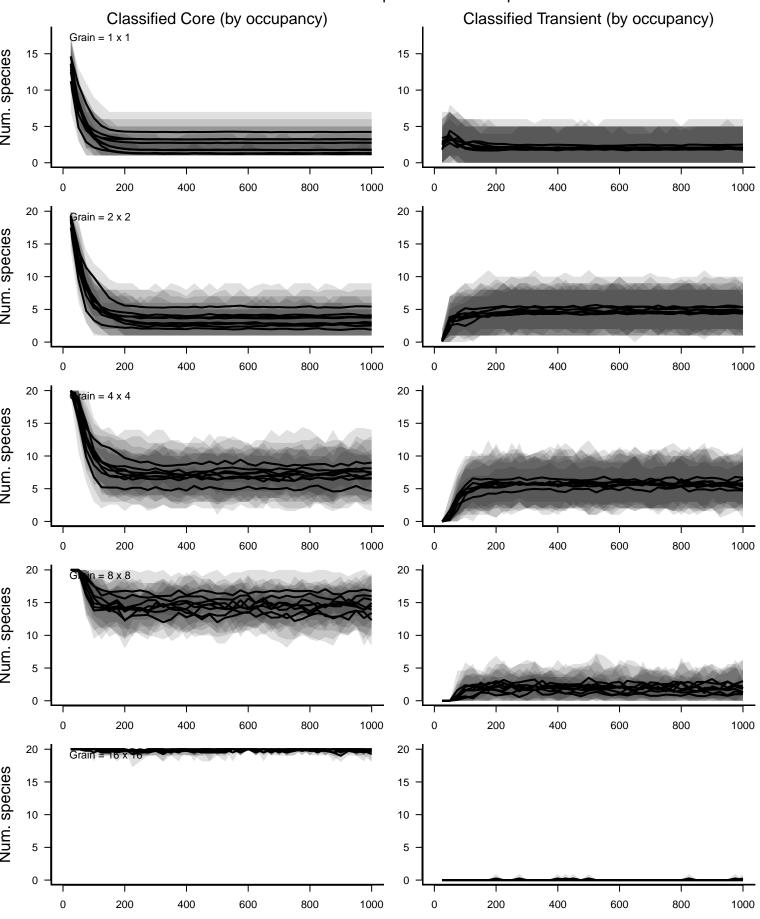
Num. Individuals

Num. Individuals

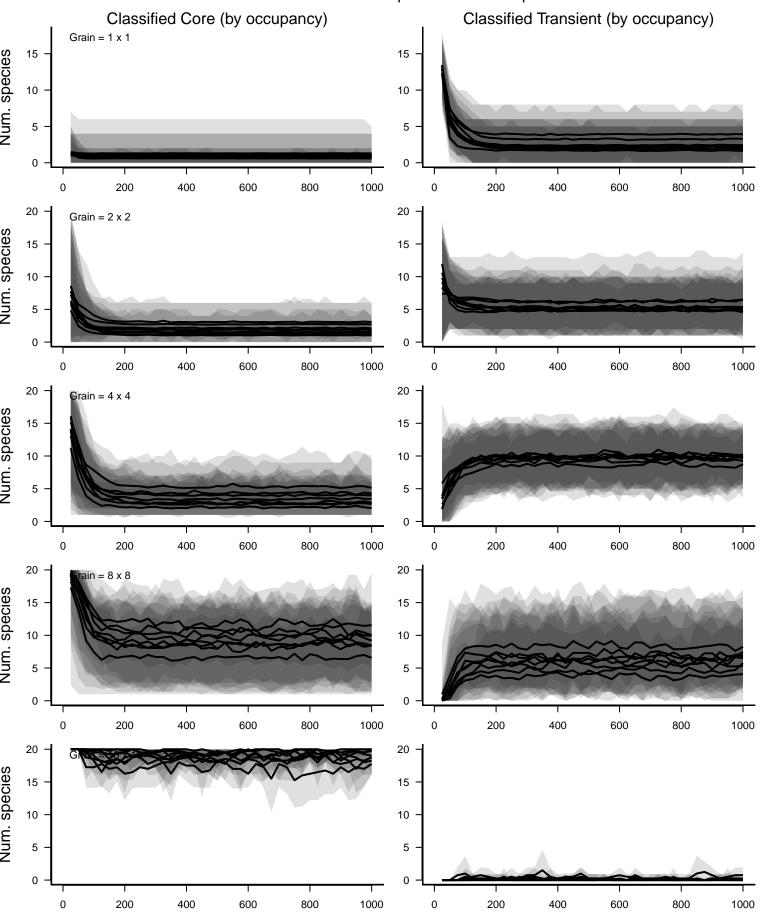


Temporal occupancy-based categories: detection prob. = 0.8 Core Transient Num. Individuals Num. individuals Num. Individuals 1000 800 600 400 200 4000 3000 2000 1000 5000 -15000 15000 5000 20000 -Grain = 16 x 16 

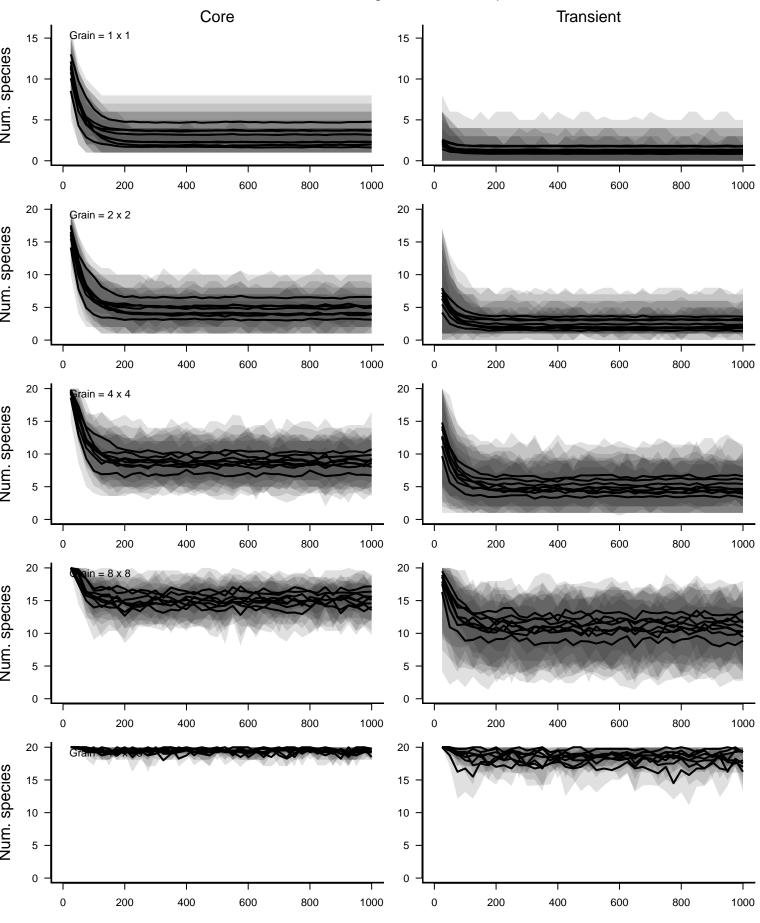
Birth rate-based Core Species: detection prob. = 0.8



Birth rate-based Transient Species: detection prob. = 0.8

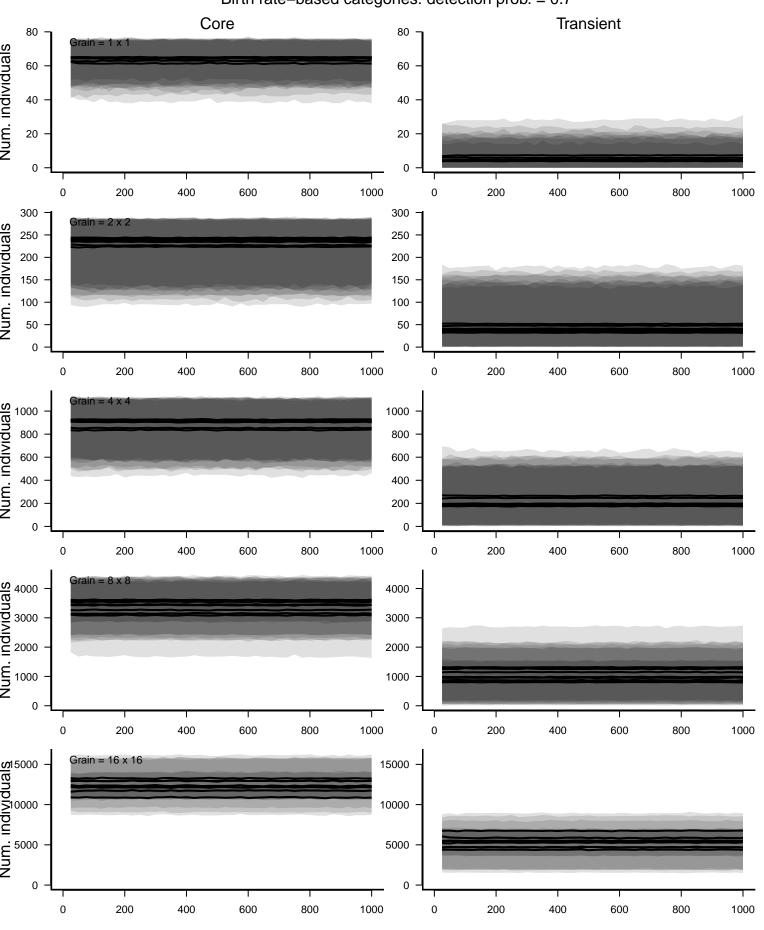


Birth rate-based categories: detection prob. = 0.7



Temporal occupancy-based categories: detection prob. = 0.7 Core Transient Grain = 1 x 1 Num. species Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 40 -Num. species 

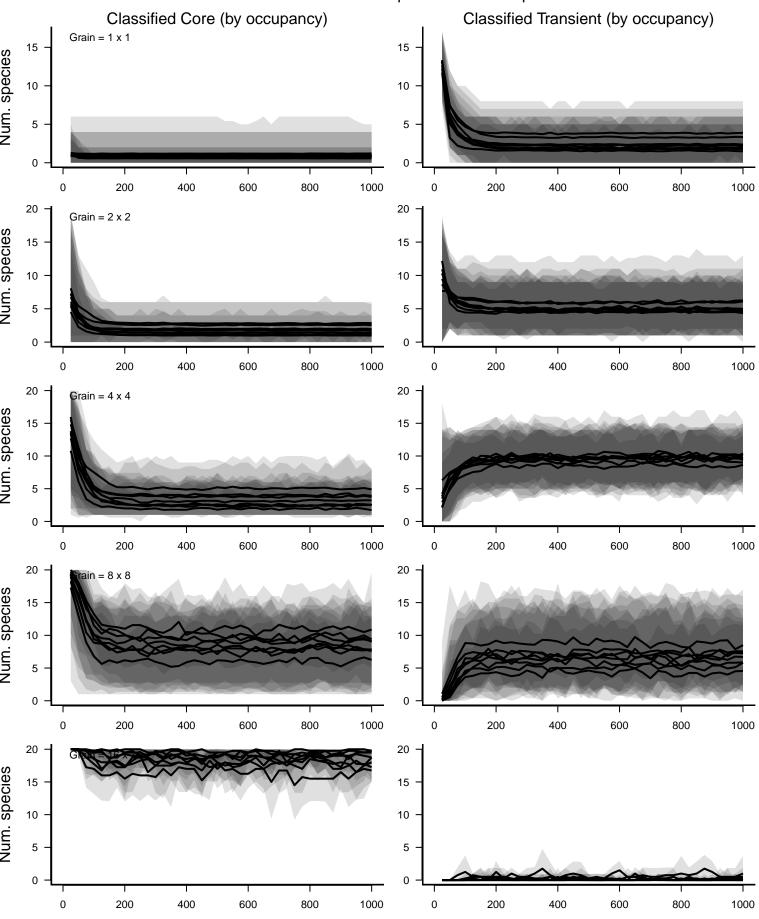
Birth rate-based categories: detection prob. = 0.7

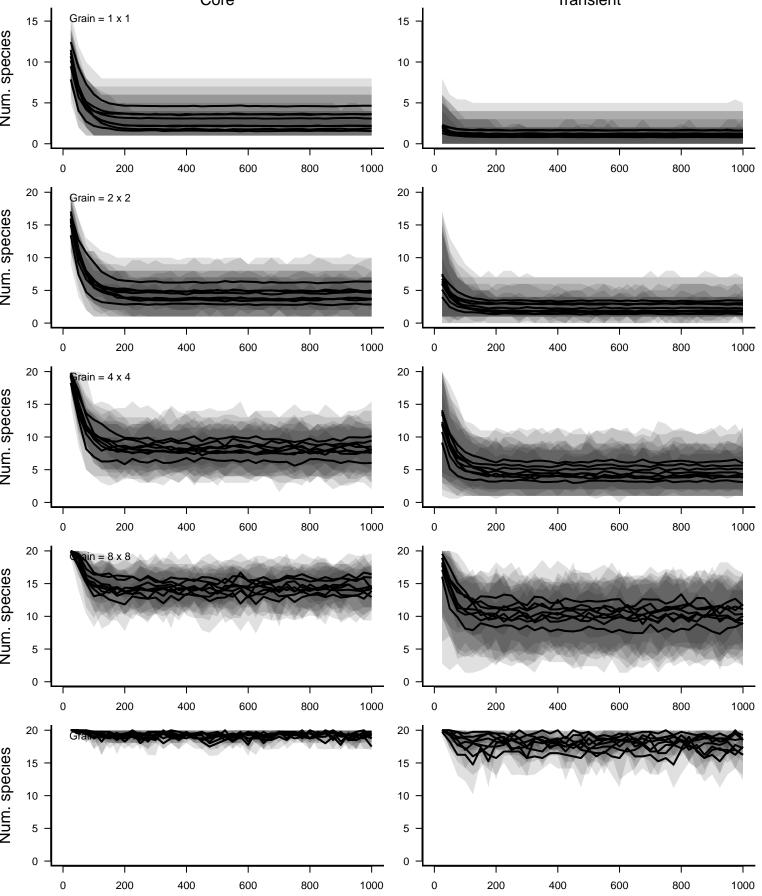


Temporal occupancy-based categories: detection prob. = 0.7 Core Transient Num. Individuals Num. Individuals Num. Individuals 3000 2000 1000 Grain = 16 x 16 Num. Individuals 10000 5000 

Birth rate-based Core Species: detection prob. = 0.7 Classified Core (by occupancy) Classified Transient (by occupancy) Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 Num. species  $n = 8 \times 8$ Num. species 20 -Num. species 

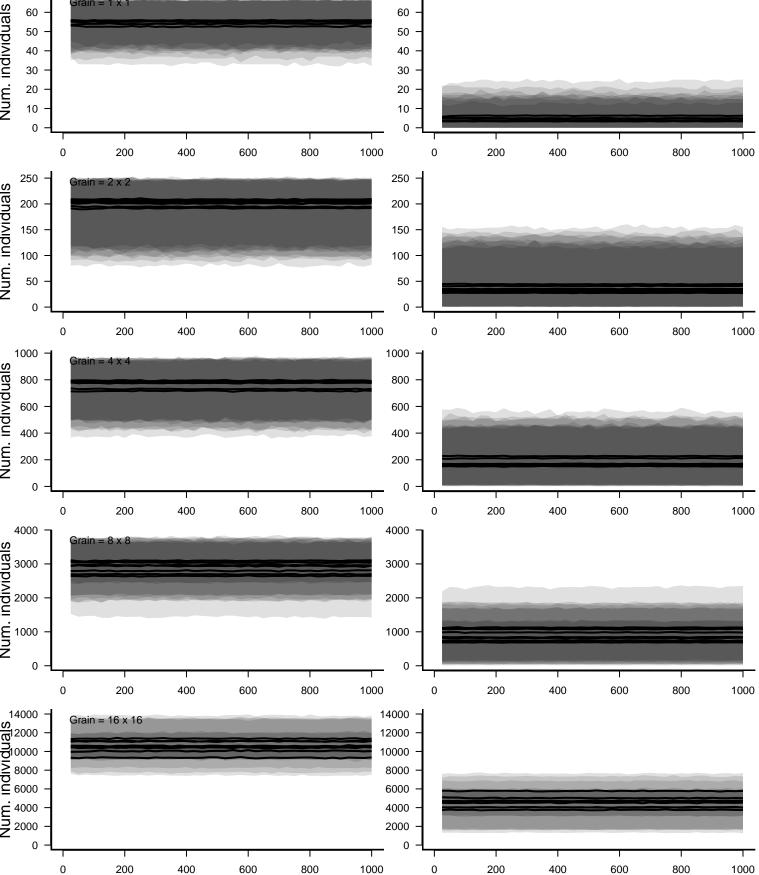
Birth rate-based Transient Species: detection prob. = 0.7





Temporal occupancy-based categories: detection prob. = 0.6 Core Transient Grain =  $1 \times 1$ Num. species Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 40 -Num. species 

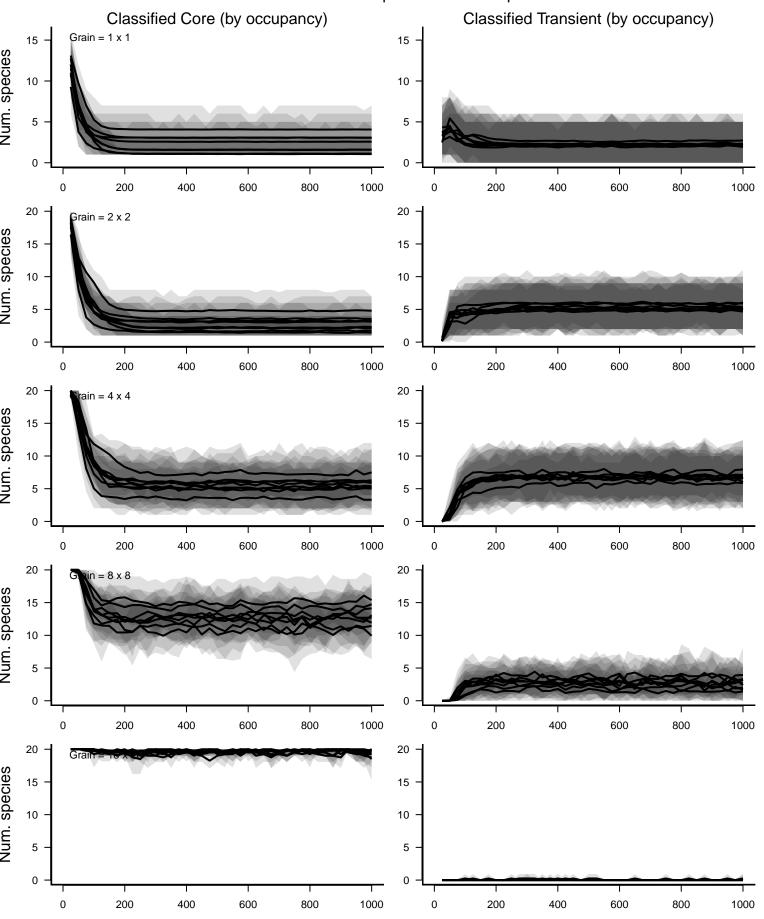
Birth rate-based categories: detection prob. = 0.6 **Transient** Core 250 -



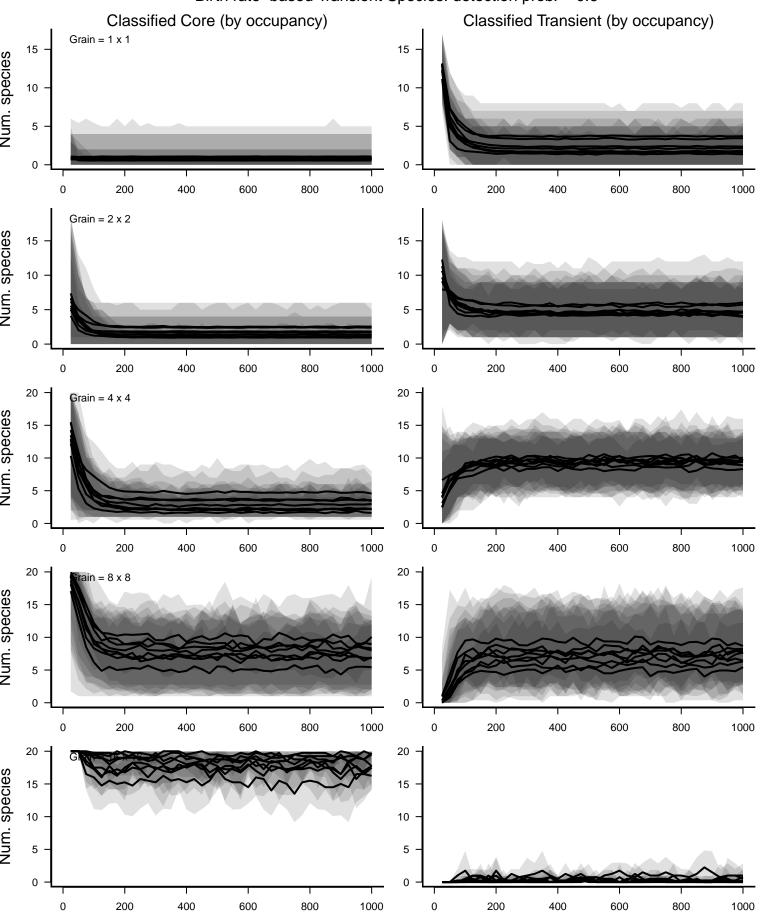
 $Grain = 1 \times 1$ 

Temporal occupancy-based categories: detection prob. = 0.6 Core Transient Num. Individuals 250 -Num. individuals 1000 -Num. Individuals Num individuals 3000 2000 1000 1000 Num. individuals. 5000 5000 5000 15000 -

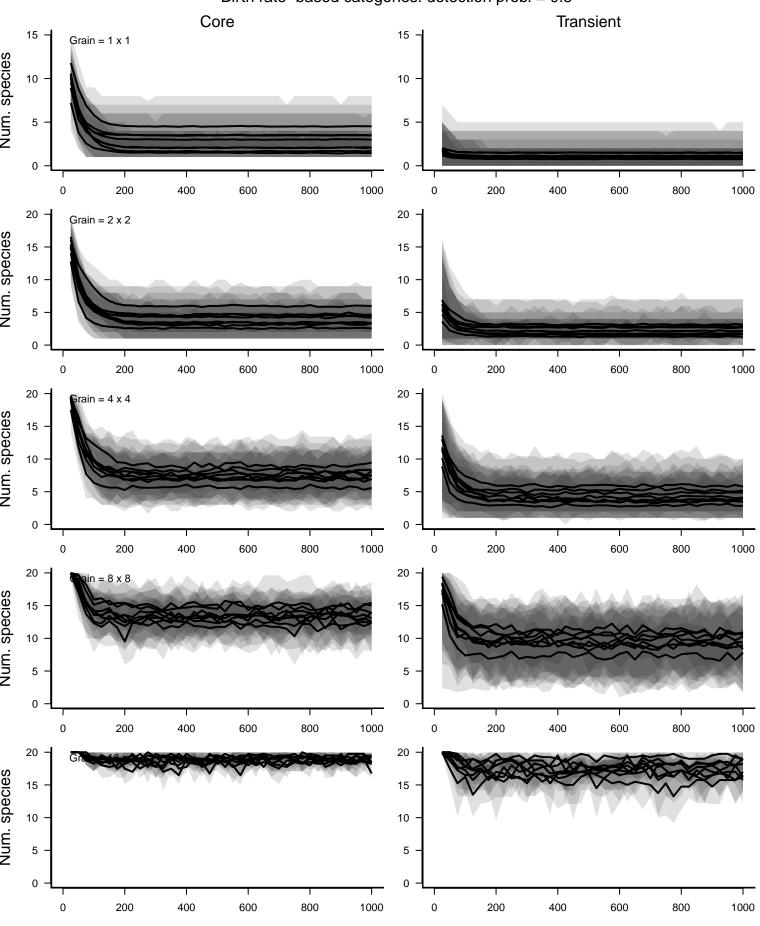
Birth rate-based Core Species: detection prob. = 0.6



Birth rate-based Transient Species: detection prob. = 0.6



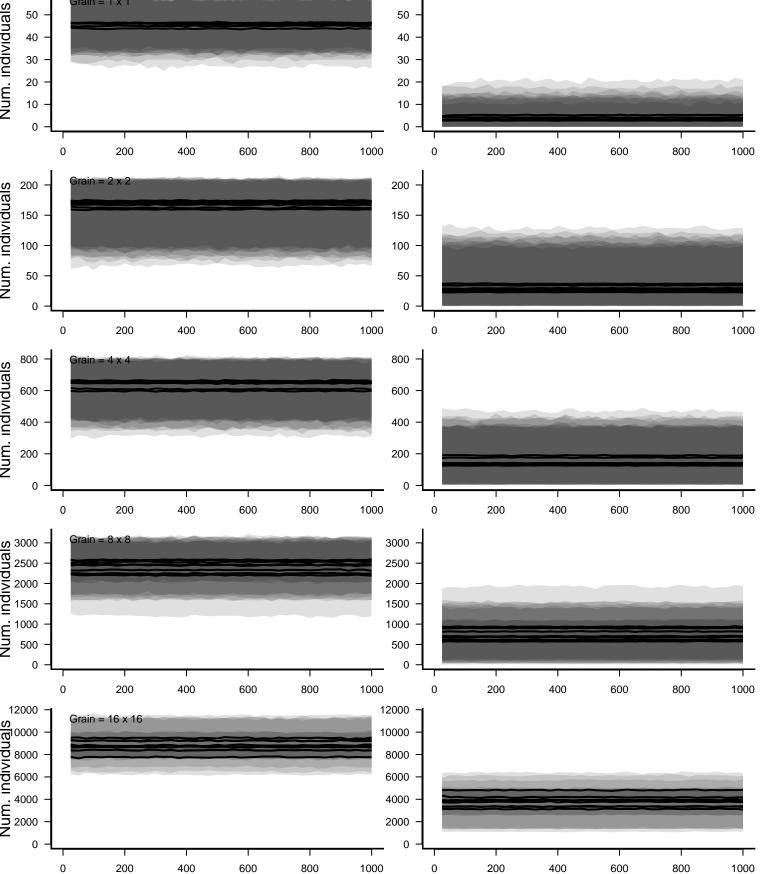
Birth rate-based categories: detection prob. = 0.5



Temporal occupancy-based categories: detection prob. = 0.5 Transient Core 14 -Grain = 1 x 1 Num. species 30 -Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 40 -Num. species 

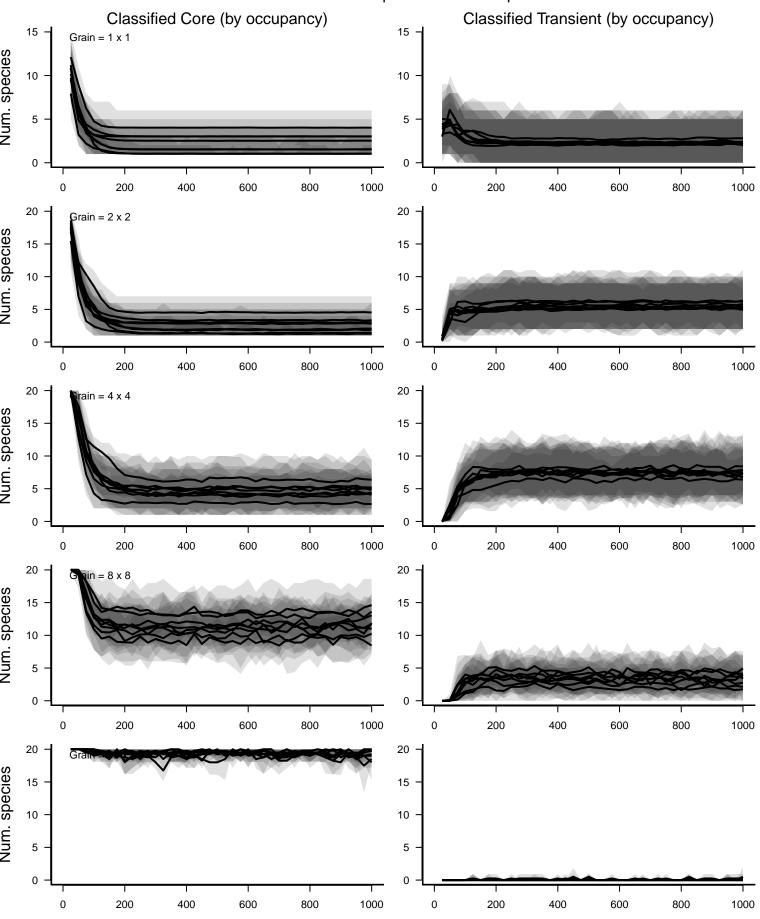
Birth rate-based categories: detection prob. = 0.5 **Transient** Core 

 $Grain = 1 \times 1$ 

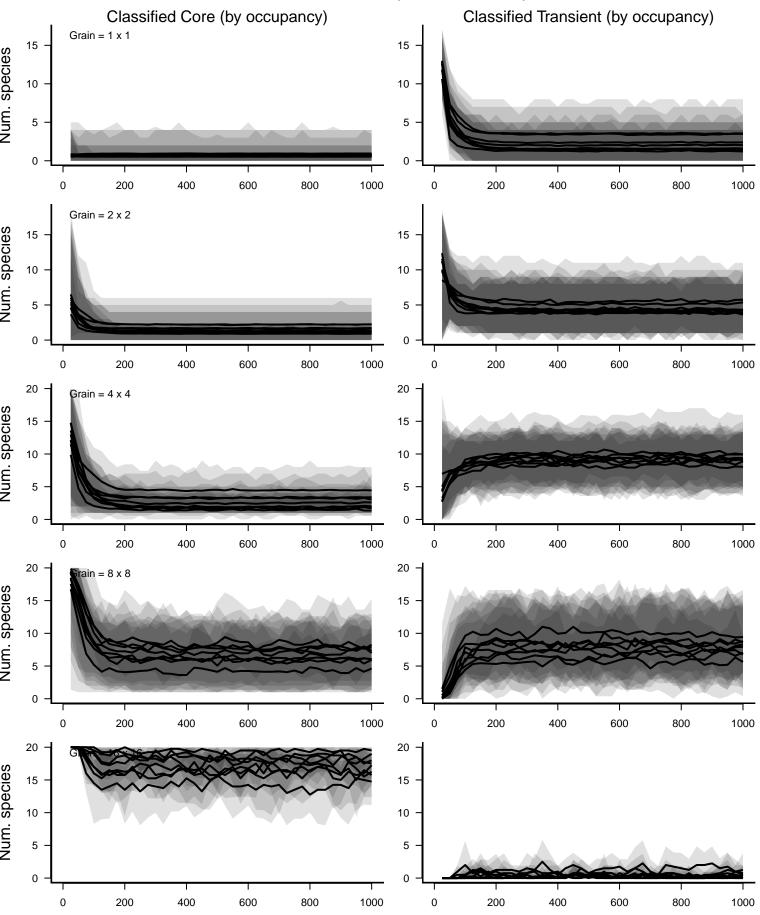


Temporal occupancy-based categories: detection prob. = 0.5 Core Transient  $Grain = 1 \times 1$ Num. Individuals Num. Individuals Num. Individuals 2500 2000 1500 1000 500 8000 and 10000 and 100000 and 10000 and 100000 and 10000 and 10000 and 10000 and 10000 and 10000 and 10000 

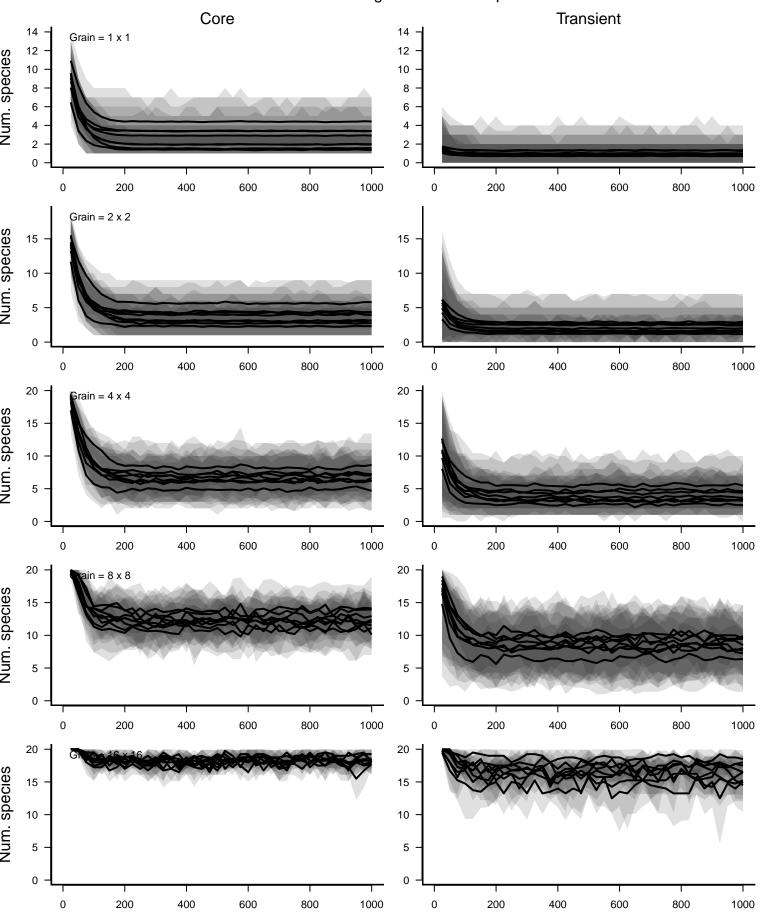
Birth rate-based Core Species: detection prob. = 0.5



Birth rate-based Transient Species: detection prob. = 0.5

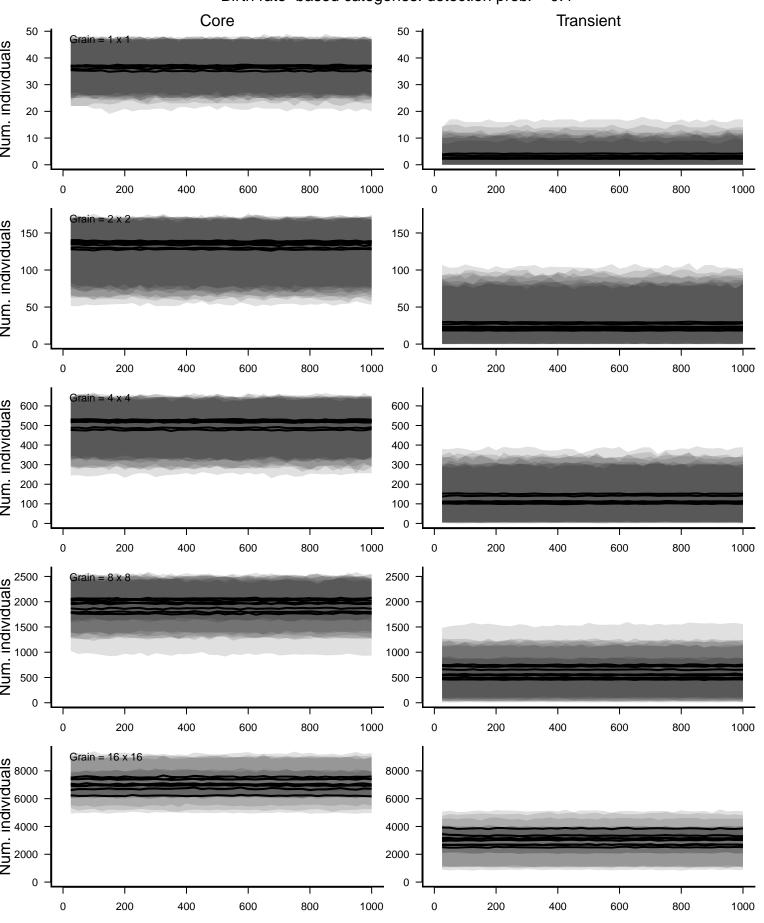


Birth rate-based categories: detection prob. = 0.4



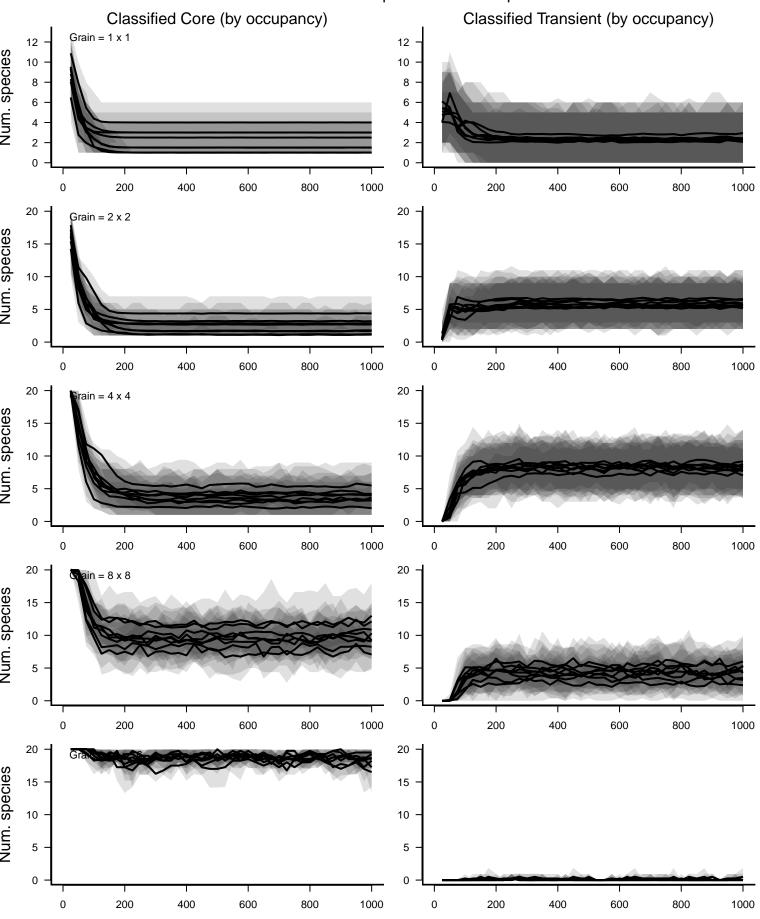
Temporal occupancy-based categories: detection prob. = 0.4 Transient Core 12 -12 -Grain = 1 x 1 Num. species Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 -Num. species 

Birth rate-based categories: detection prob. = 0.4

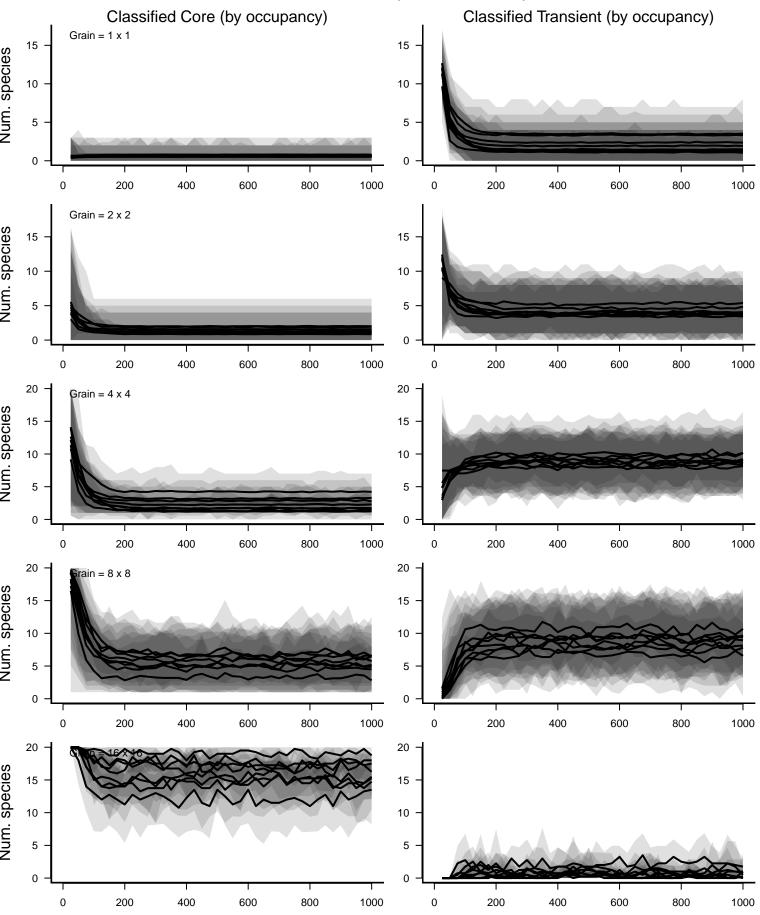


Temporal occupancy-based categories: detection prob. = 0.4 Core 50 - $Grain = 1 \times 1$ Num. Individuals Num. Individuals 2000 1500 1000 500 Num. Individuals 8000 6000 4000 2000 

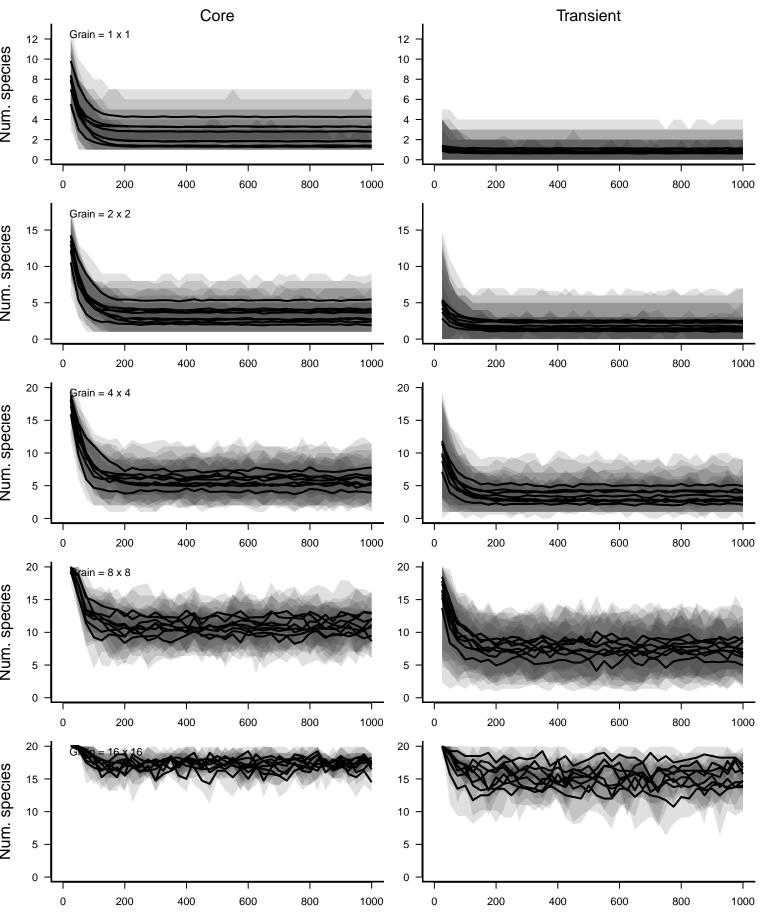
Birth rate-based Core Species: detection prob. = 0.4



Birth rate-based Transient Species: detection prob. = 0.4

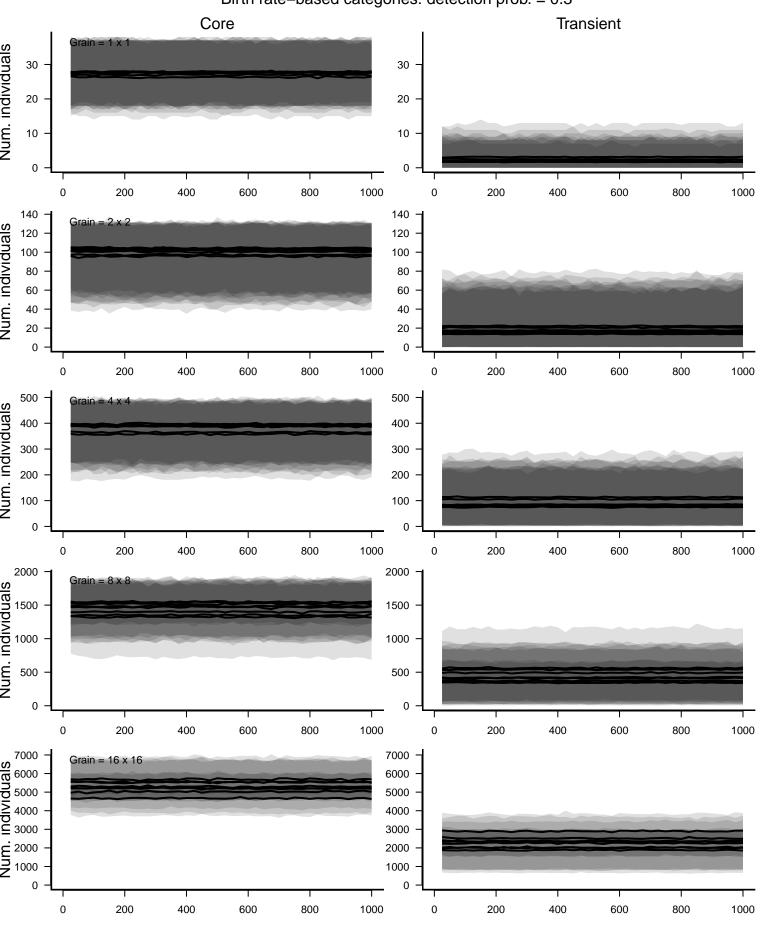


Birth rate-based categories: detection prob. = 0.3



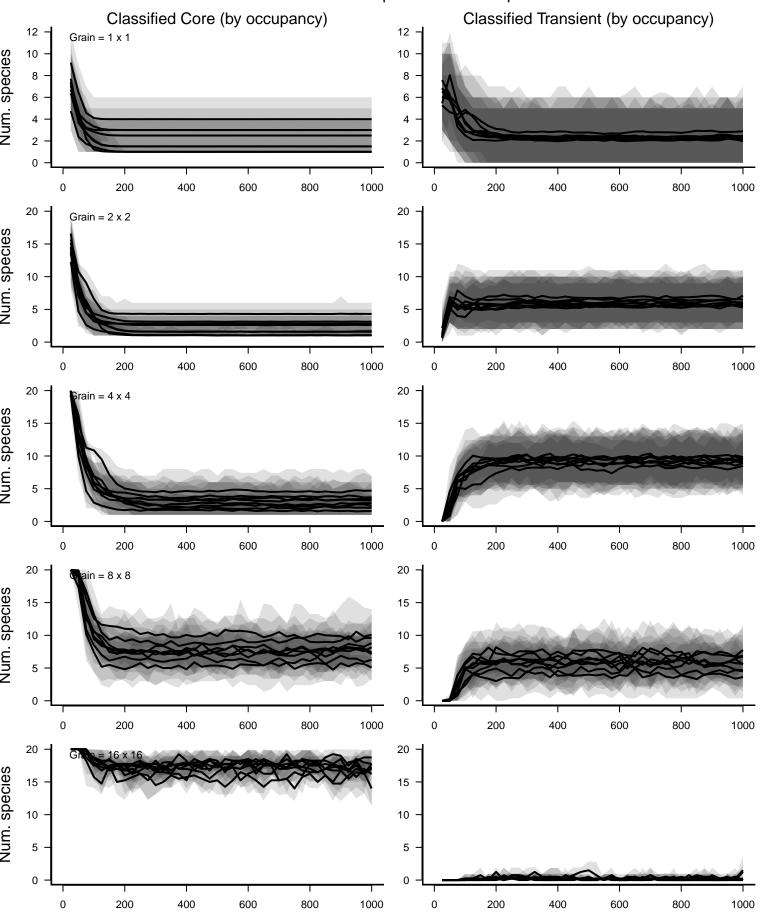
Temporal occupancy-based categories: detection prob. = 0.3 Transient Core 10 -Grain =  $1 \times 1$ Num. species Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 -Num. species 

Birth rate-based categories: detection prob. = 0.3

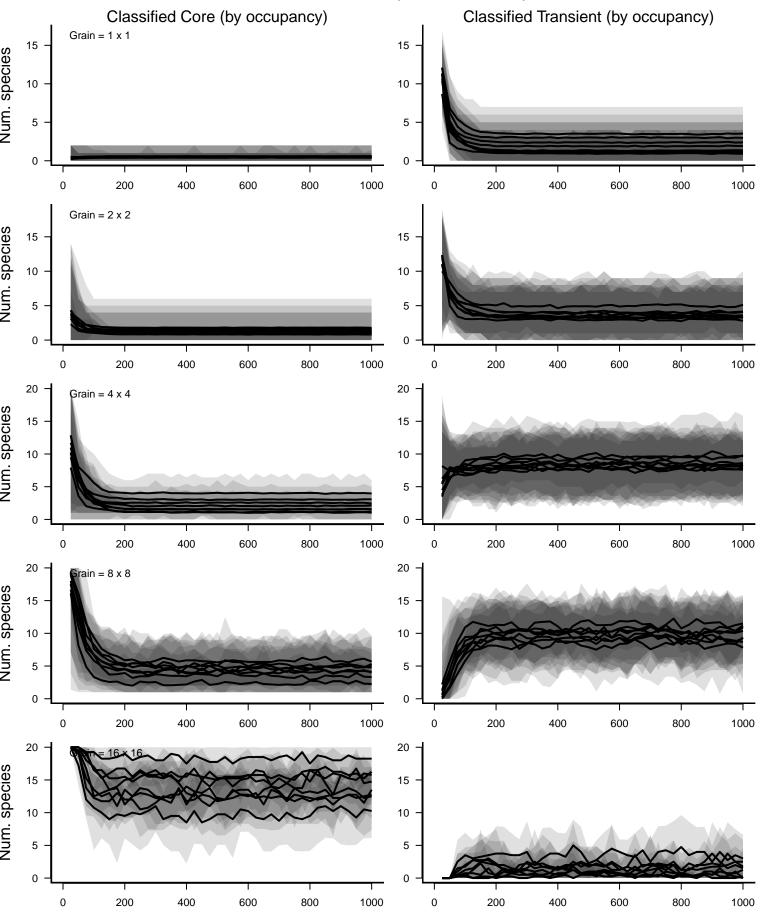


Temporal occupancy-based categories: detection prob. = 0.3 Core Transient Grain =  $1 \times 1$ Num. Individuals Num. Individuals 2000 -Num. 1500 1500 1000 500 Sign 6000 6000 4000 2000 

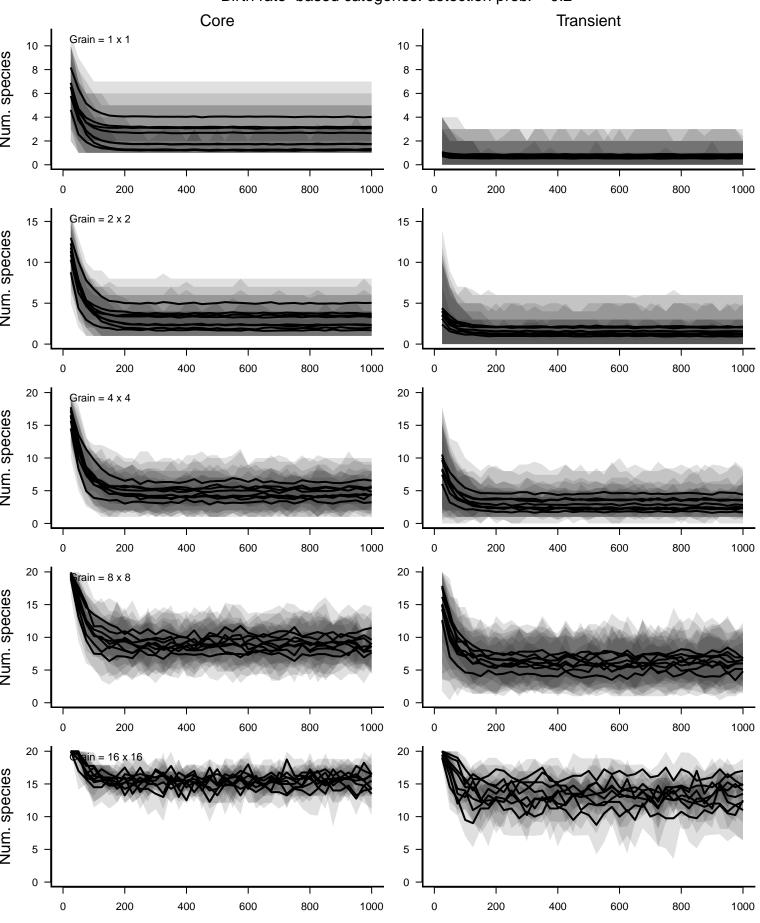
Birth rate-based Core Species: detection prob. = 0.3



Birth rate-based Transient Species: detection prob. = 0.3

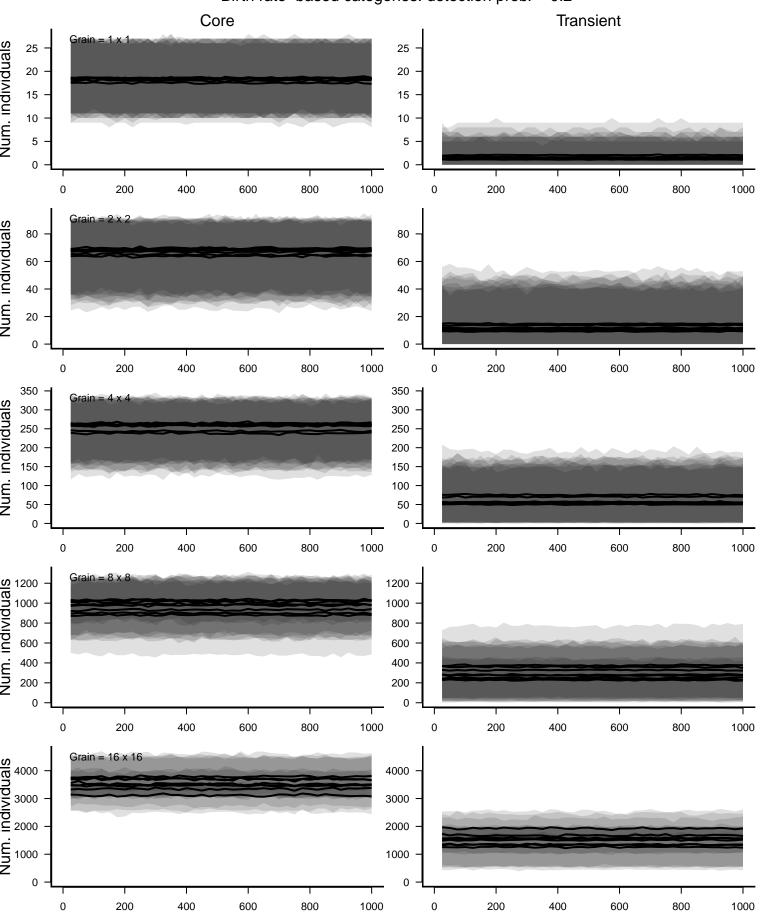


Birth rate-based categories: detection prob. = 0.2



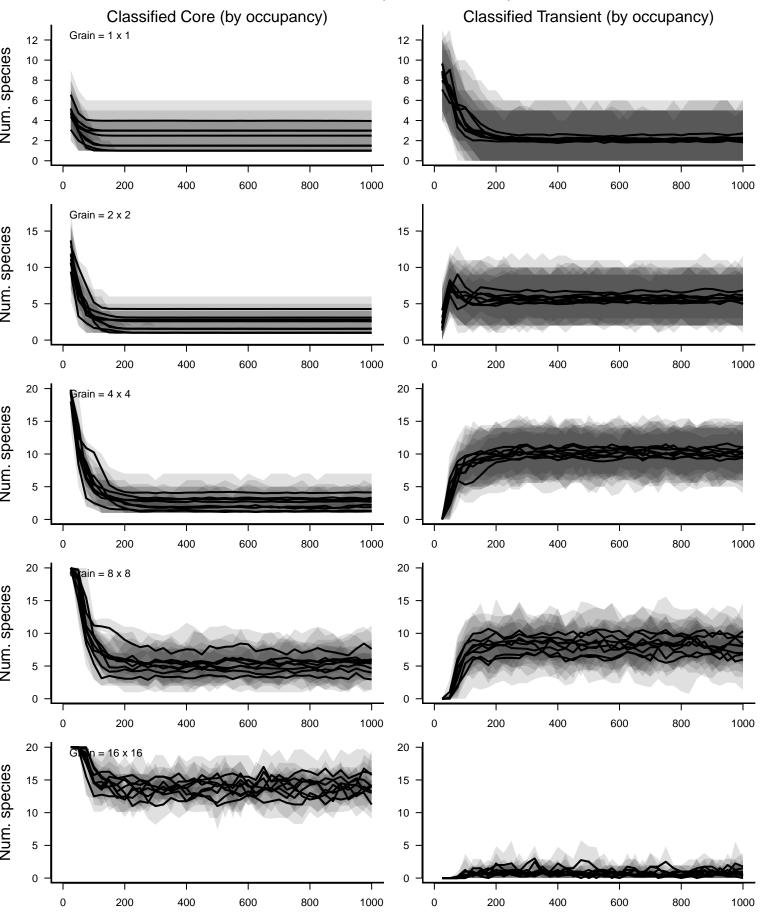
Temporal occupancy-based categories: detection prob. = 0.2 Transient Core 8 -Grain =  $1 \times 1$ Num. species 20 -Grain = 2 x 2 Num. species 35 -35 -Grain =  $4 \times 4$ Num. species 40 -Grain = 8 x 8 Num. species 40 in = 16 x 16 Num. species 

Birth rate-based categories: detection prob. = 0.2

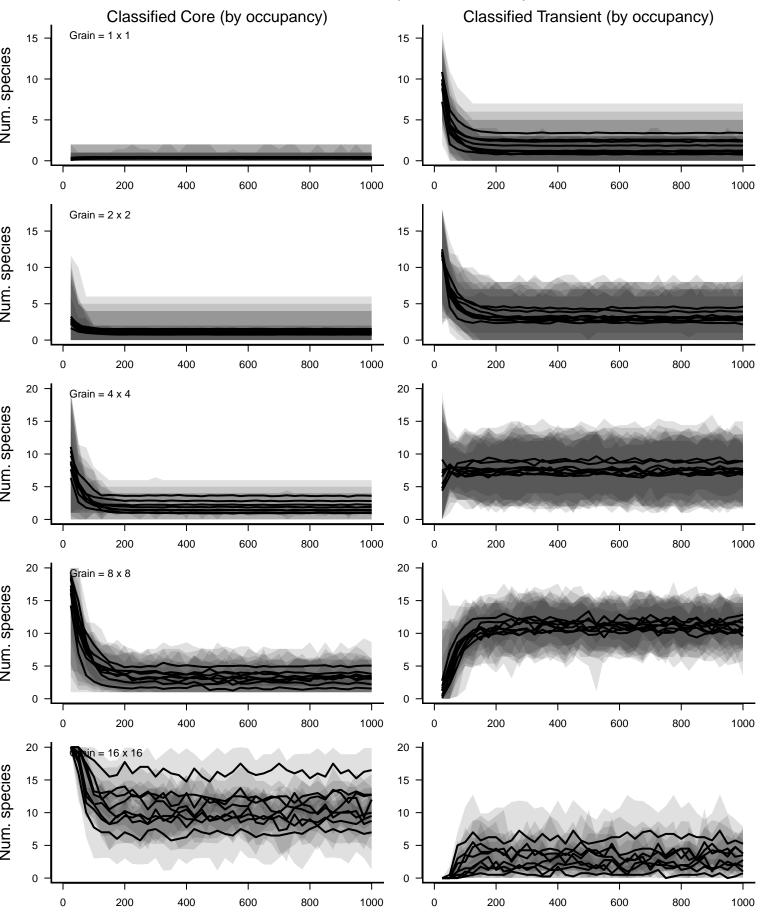


Temporal occupancy-based categories: detection prob. = 0.2 Transient Core Grain =  $1 \times 1$ Num. Individuals Num. Individuals 350 -Num. Individuals Num. individuals 1000 1000 800 600 400 200 4000 3000 2000 1000 

Birth rate-based Core Species: detection prob. = 0.2



Birth rate-based Transient Species: detection prob. = 0.2

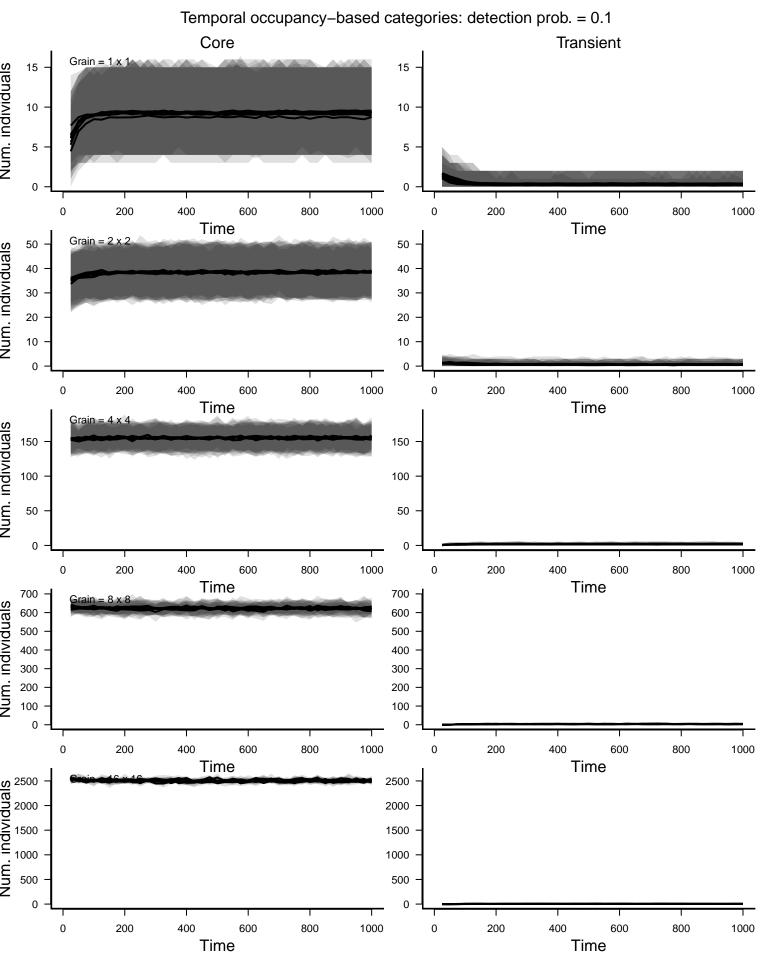


Time

Time

Temporal occupancy-based categories: detection prob. = 0.1 Core **Transient** 6 -Grain =  $1 \times 1$ Num. species Time Time Grain =  $2 \times 2$ 12 -12 -Num. species Time Time Grain =  $4 \times 4$ Num. species Time Time Grain = 8 x 8 Num. species Time Time 40 - $ain = 16 \times 16$ Num. species 10 -Time Time

Birth rate-based categories: detection prob. = 0.1 **Transient** Core Grain =  $1 \times 1$ Num. Individuals Time Time Grain =  $2 \times 2$ Num. Individuals Time Time  $Grain = 4 \times 4$ Num. Individuals Time Time Grain = 8 x 8 Num. Individuals Time Time 2000 Nam. Individuals 2000 1500 1500 500 Grain = 16 x 16 Time Time



Birth rate-based Core Species: detection prob. = 0.1 Classified Core (by occupancy) Classified Transient (by occupancy) Grain =  $1 \times 1$ Num. species Time Time 14 -Grain =  $2 \times 2$ Num. species Time Time 20 -Grain = 4 x 4 Num. species Time Time rain = 8 x 8 Num. species Time Time 20  $ain = 16 \times 16$ Num. species 

Time

Time

Birth rate-based Transient Species: detection prob. = 0.1 14 -

