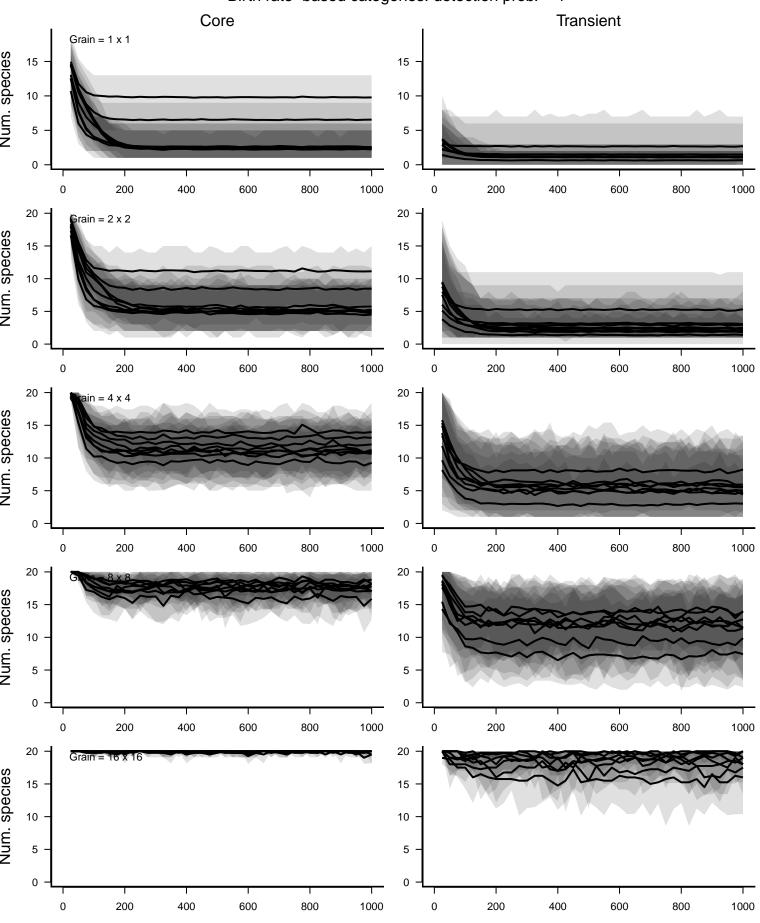
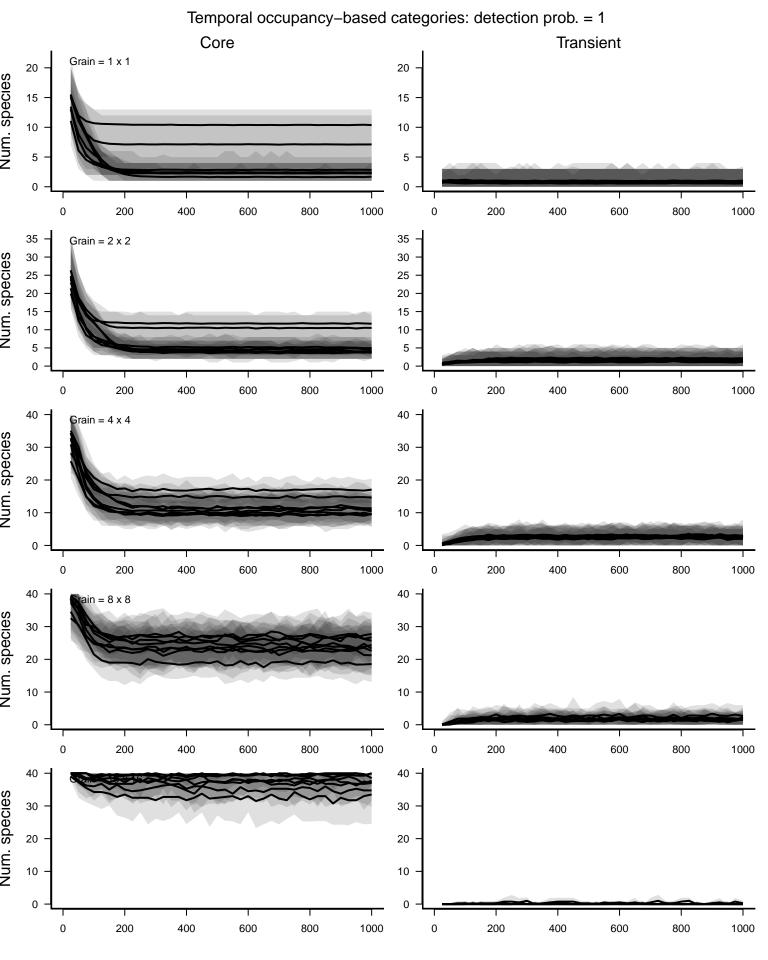
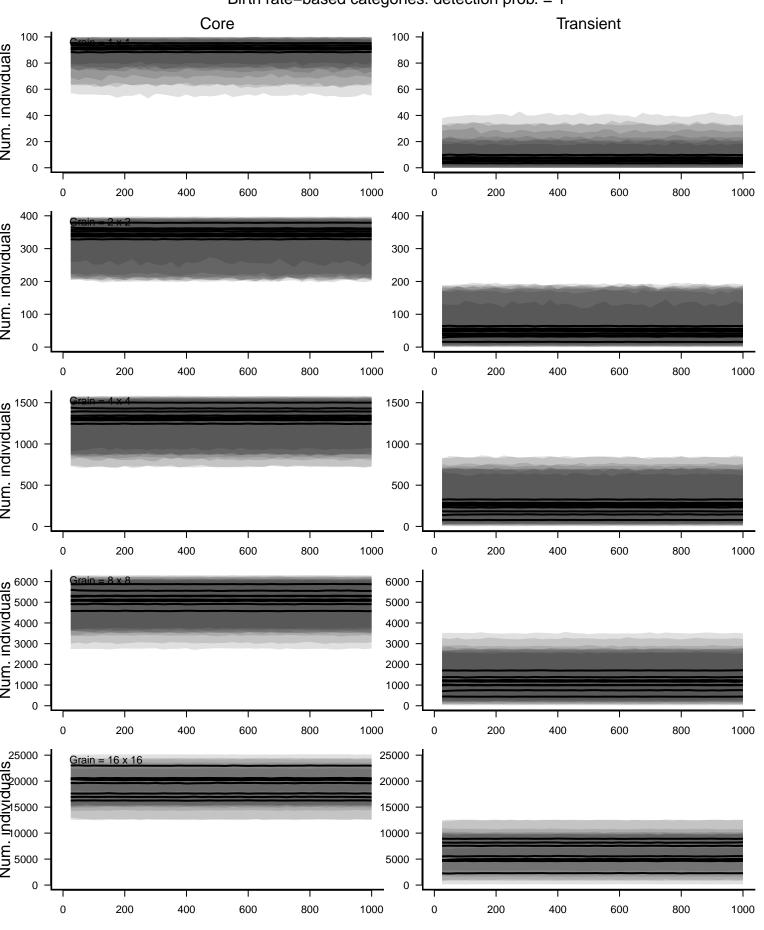
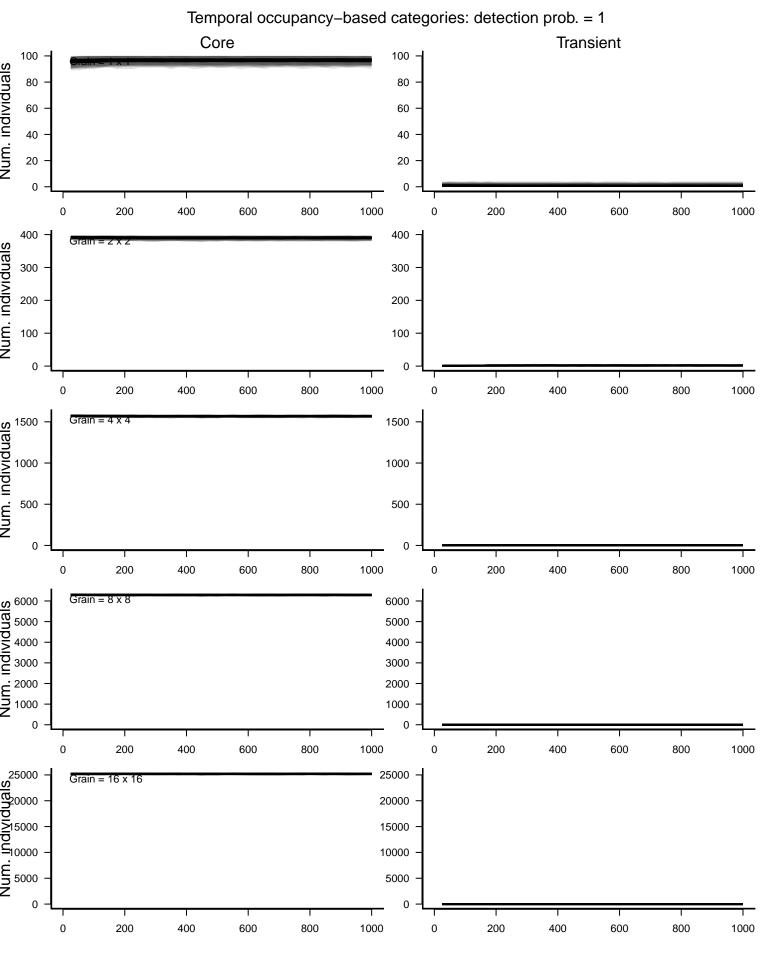
Birth rate-based categories: detection prob. = 1





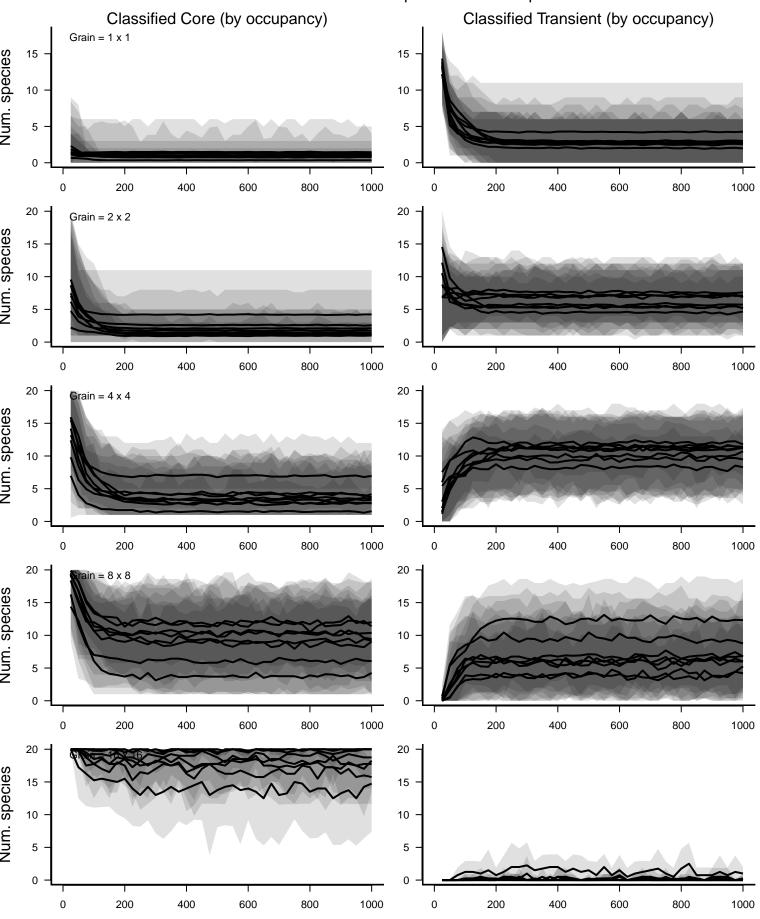
Birth rate-based categories: detection prob. = 1



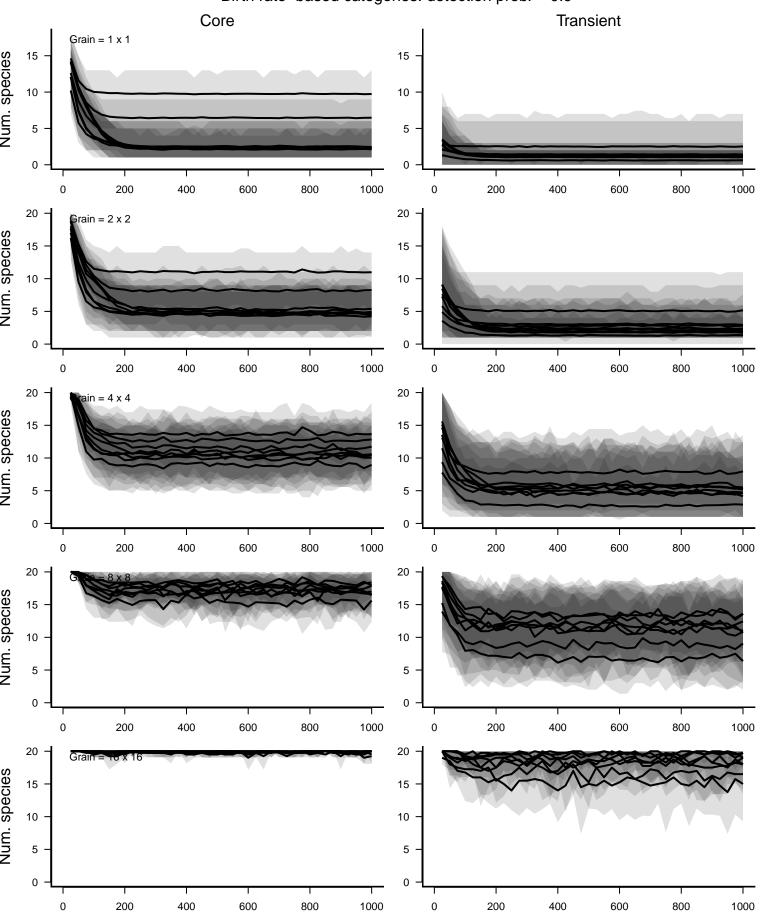


Birth rate-based Core Species: detection prob. = 1 Classified Core (by occupancy) Classified Transient (by occupancy) Grain = 1 x 1 Num. species 20 rain = 2 x 2 Num. species 20  $ain = 4 \times 4$ Num. species 20 -Num. species 20 -Grain  $= 16 \times 16$ Num. species 

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

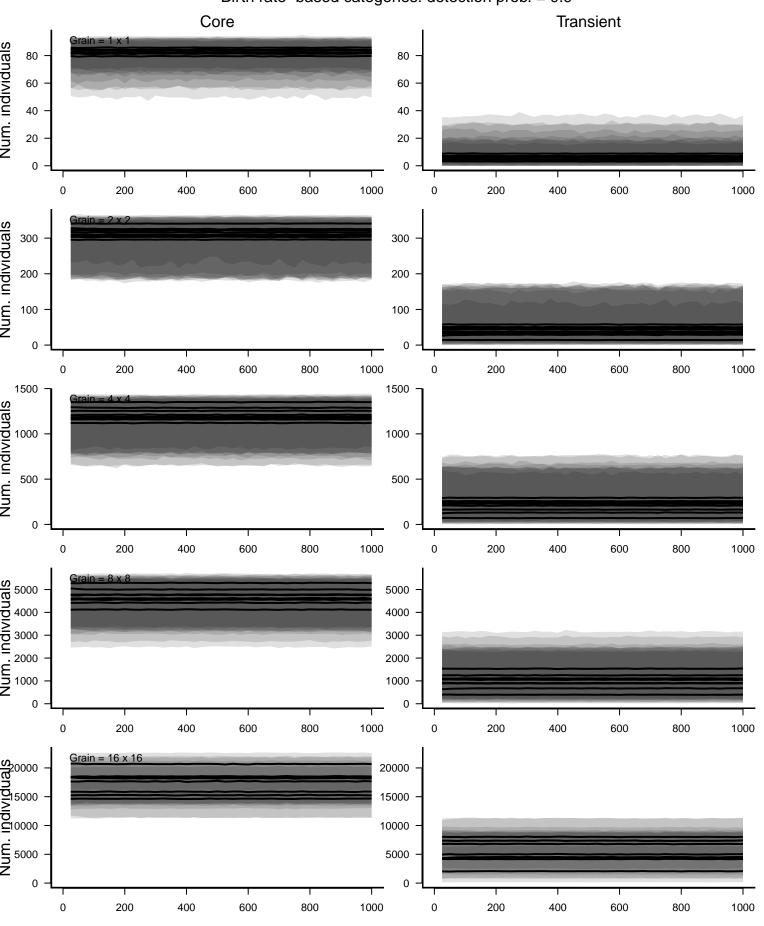


Birth rate-based categories: detection prob. = 0.9



Temporal occupancy-based categories: detection prob. = 0.9 Transient Core Grain =  $1 \times 1$ Num. species 35 -35 -Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 10 -40 ain = 8 x 8 Num. species 40 -Num. species 

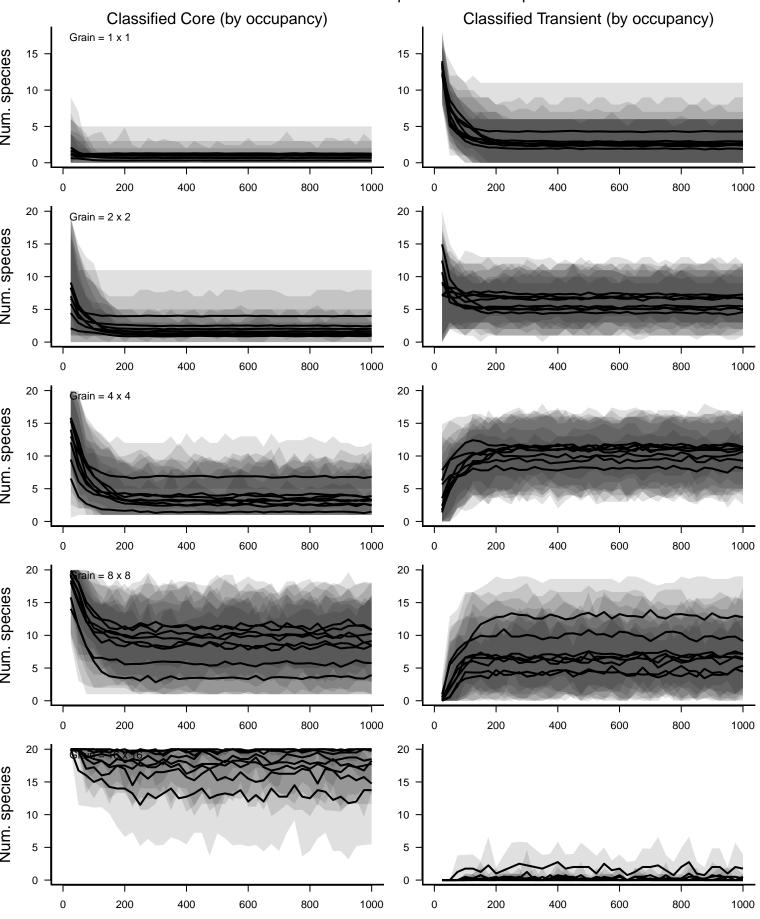
Birth rate-based categories: detection prob. = 0.9



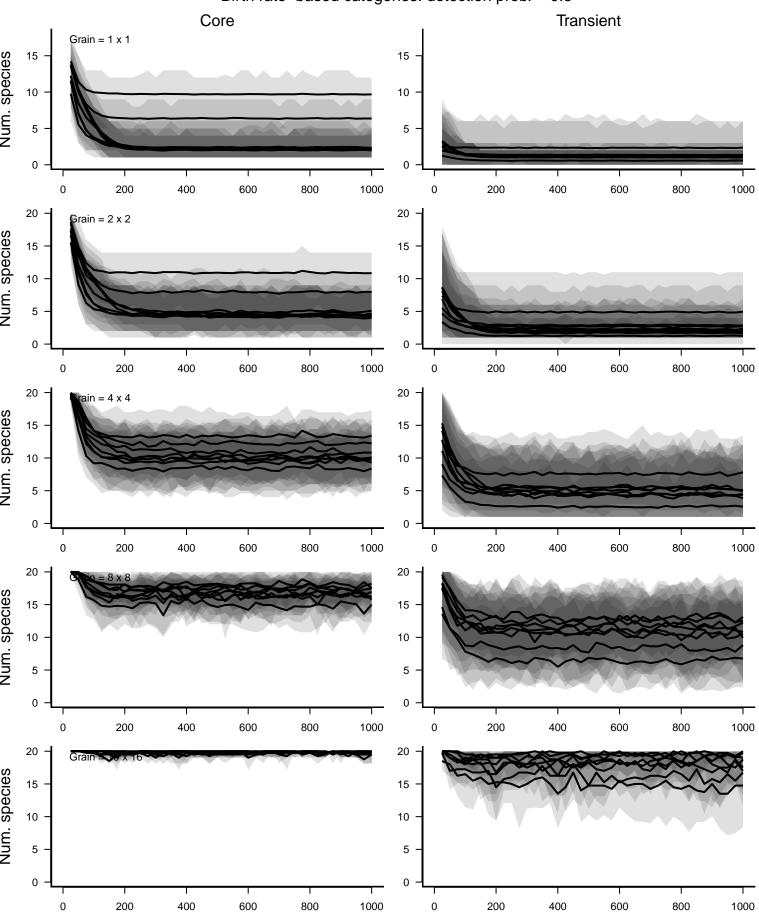
Temporal occupancy-based categories: detection prob. = 0.9 Core Transient Num. Individuals Num. Individuals Num. Individuals 500 Grain = 8 x 8 4000 3000 2000 1000 Grain = 16 x 16 Num. individuals 50000 5000 

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



Birth rate-based categories: detection prob. = 0.8

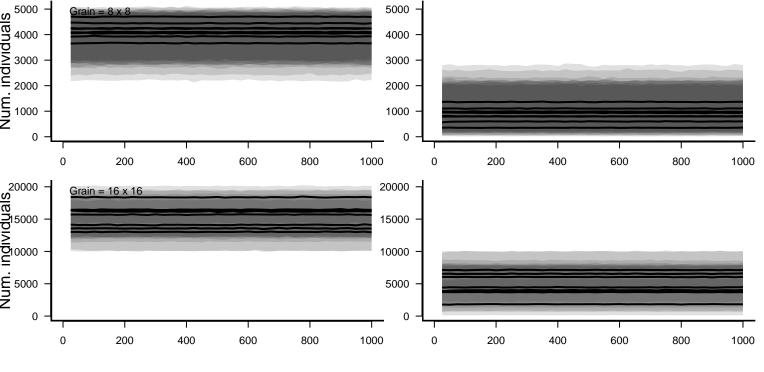


Temporal occupancy-based categories: detection prob. = 0.8 Transient Core 20 -Grain = 1 x 1 Num. species Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 ain = 8 x 8 Num. species 40 -Num. species 

Birth rate-based categories: detection prob. = 0.8 **Transient** Core 5000 -

Num. Individuals

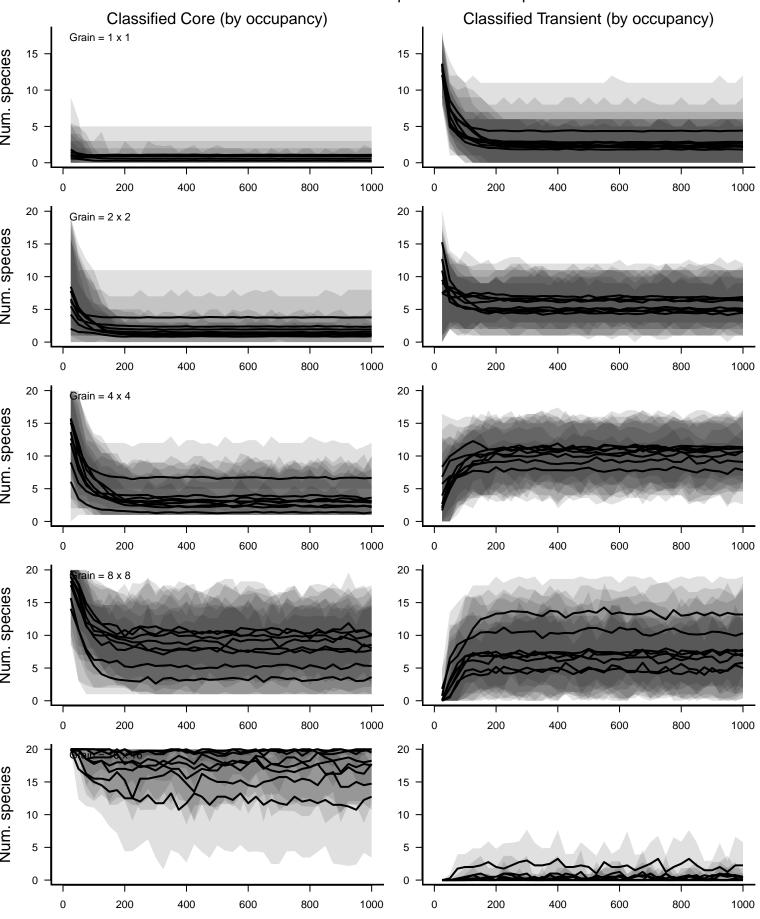
Num. Individuals



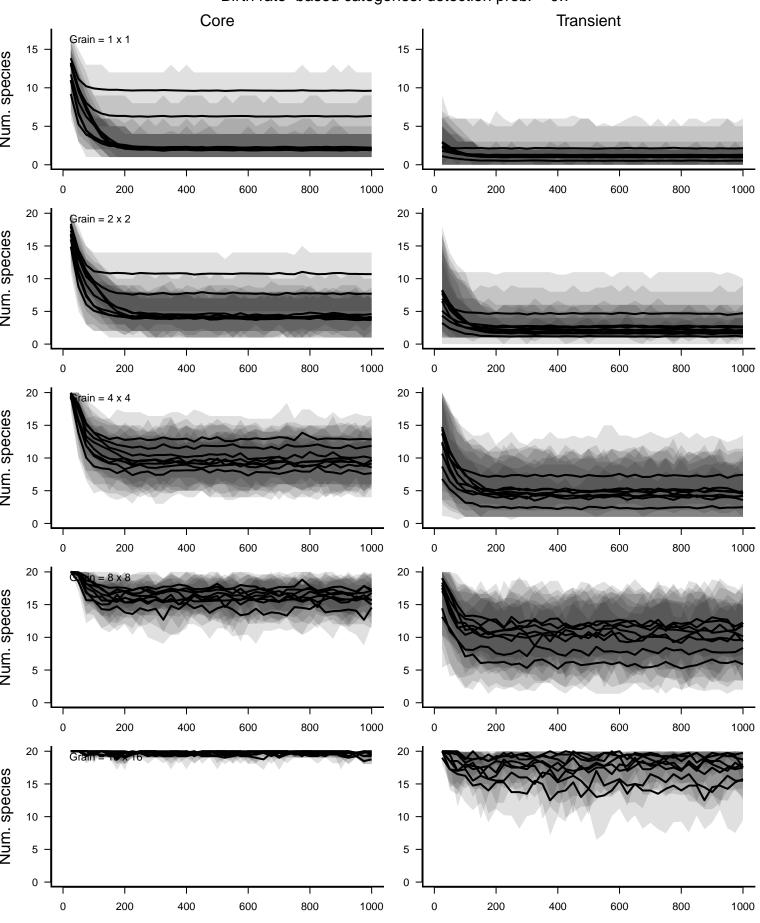
Temporal occupancy-based categories: detection prob. = 0.8 Core Transient Num. Individuals Num. individuals Num. Individuals 1000 800 600 400 200 4000 3000 2000 1000 5000 -15000 15000 5000 20000 -Grain = 16 x 16 

Birth rate-based Core Species: detection prob. = 0.8 Classified Core (by occupancy) Classified Transient (by occupancy) Grain = 1 x 1 Num. species 20 -Frain = 2 x 2 Num. species 20 ain = 4 x 4 Num. species 20 -Num. species 20 -Grain **¥** 16 x 16 Num. species

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

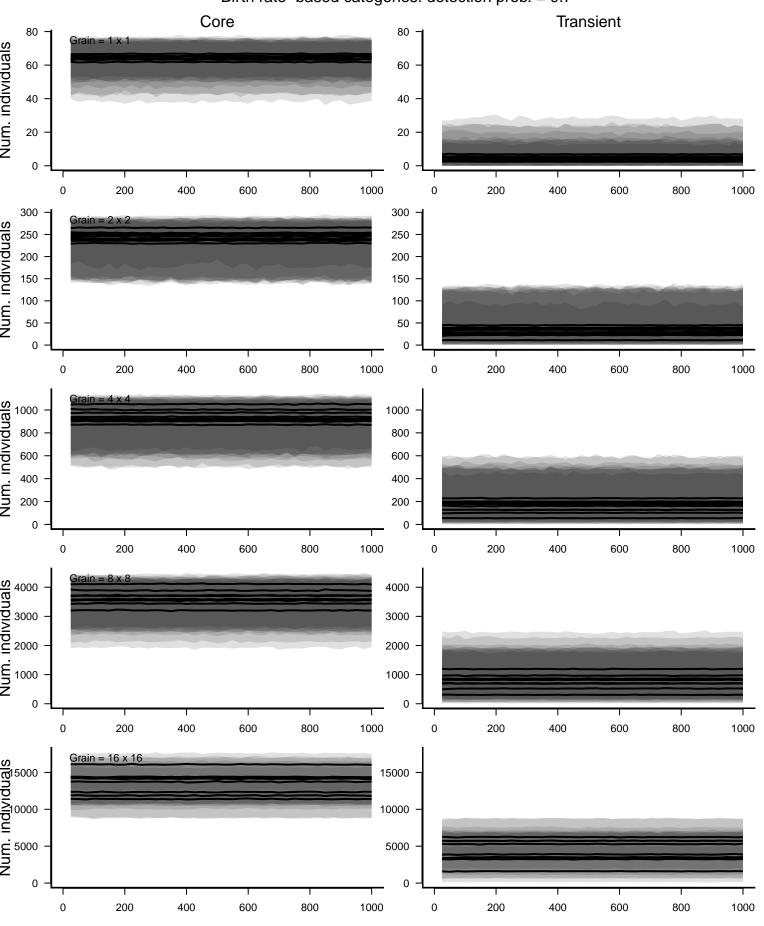


Birth rate-based categories: detection prob. = 0.7



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 

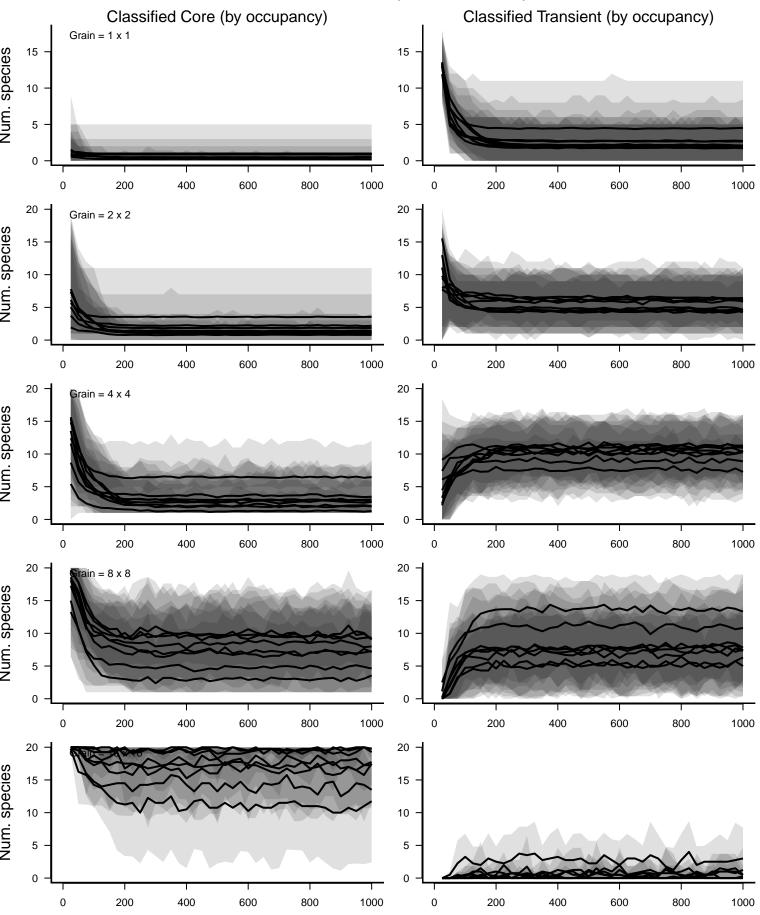
Birth rate-based categories: detection prob. = 0.7



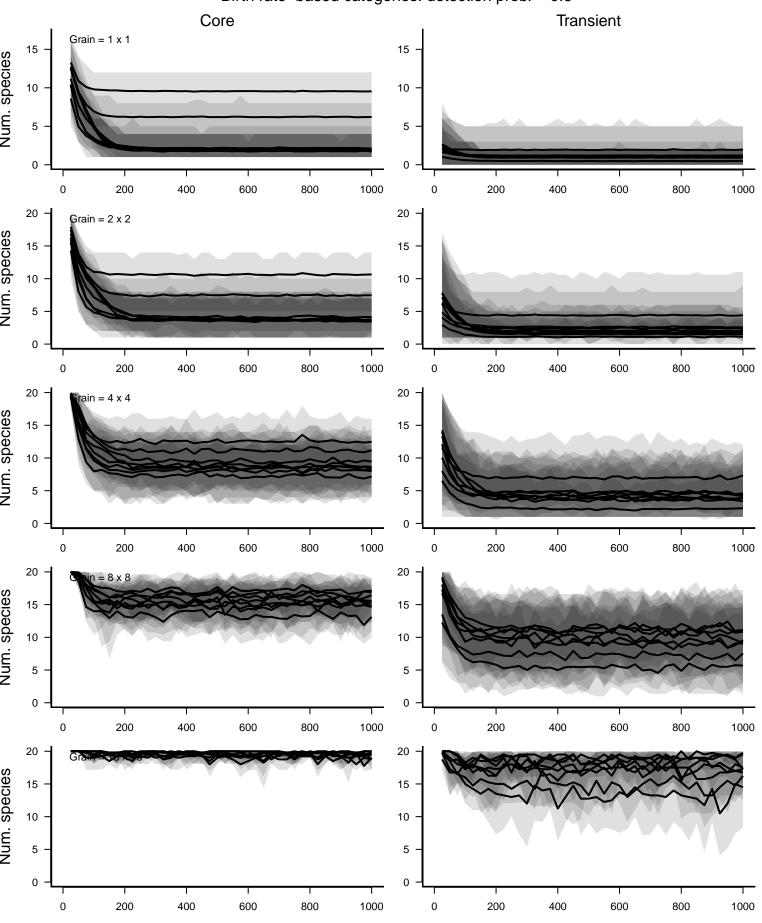
Temporal occupancy-based categories: detection prob. = 0.7 Core Transient Num. Individuals Num. Individuals Num. individuals 800 600 400 200 3000 2000 1000 Grain = 16 x 16 Num. Individuals 10000 5000 

Birth rate-based Core Species: detection prob. = 0.7 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 -Num. species 

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

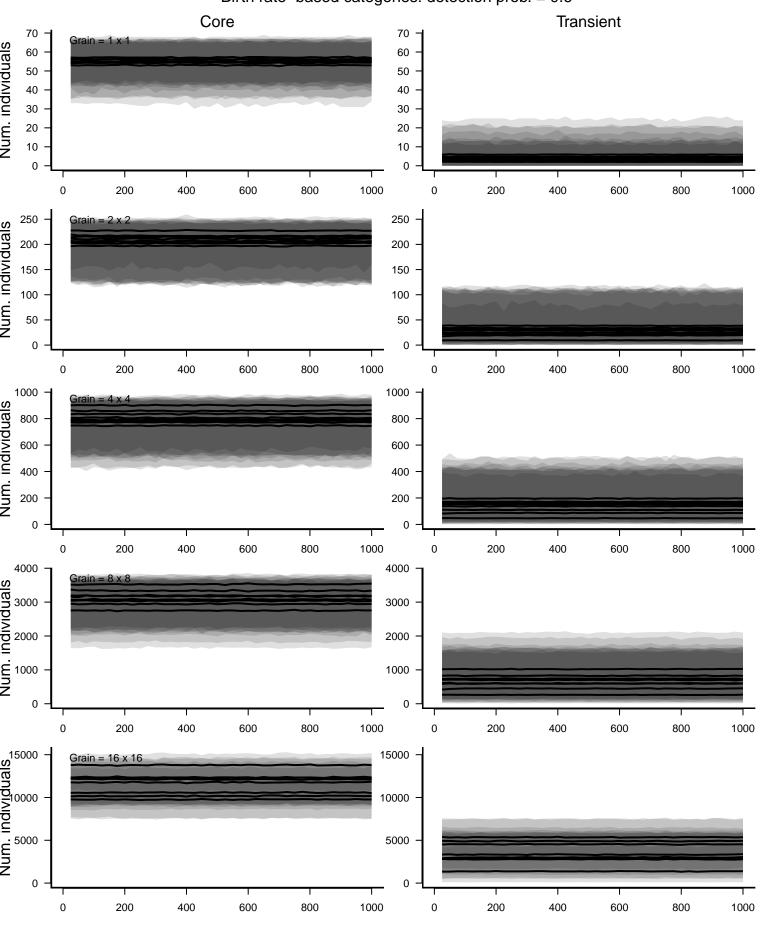


Birth rate-based categories: detection prob. = 0.6



Temporal occupancy–based categories: detection prob. = 0.6 Transient Core 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 

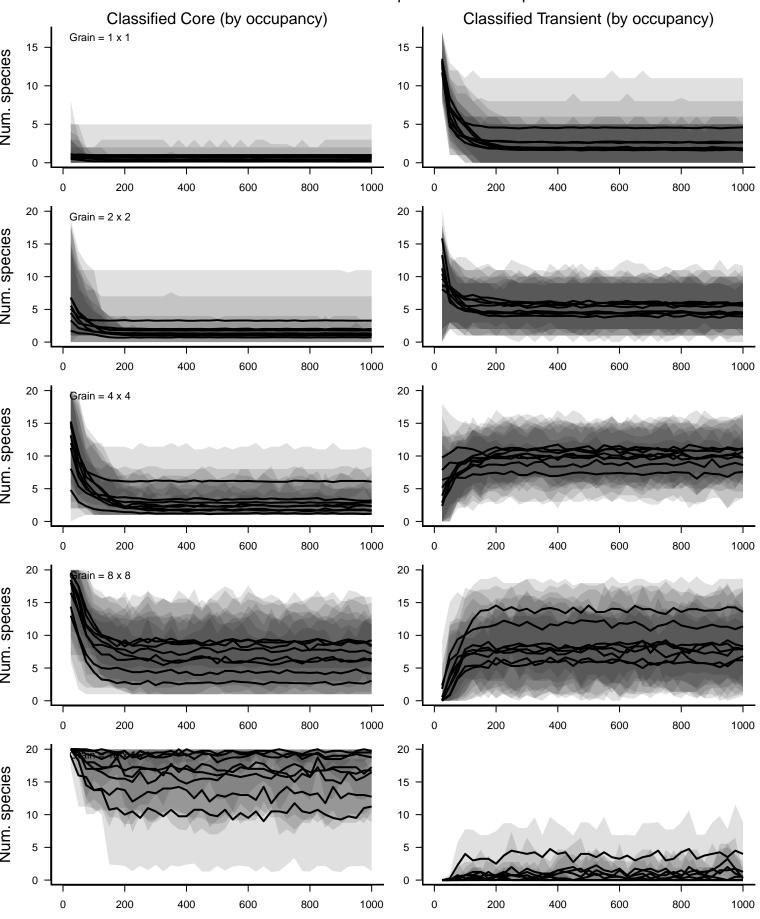
Birth rate-based categories: detection prob. = 0.6



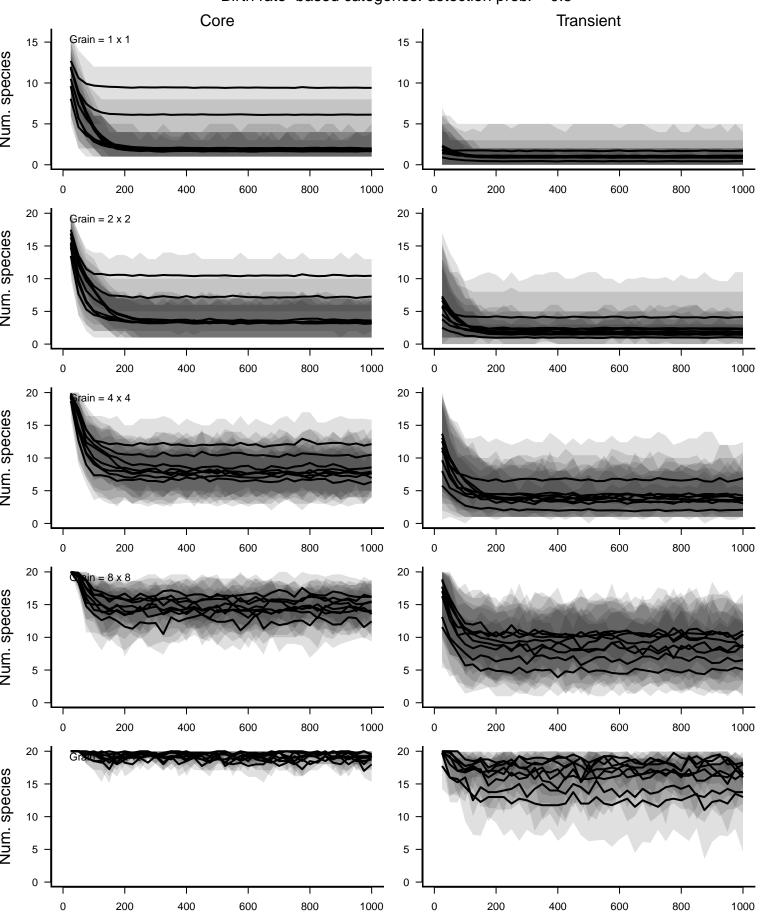
Temporal occupancy-based categories: detection prob. = 0.6 Core Transient Num. Individuals Num. Individuals 1000 -Num. Individuals 2000 mg/signal supplied in the Num. individuals. 5000 15000 -

Birth rate-based Core Species: detection prob. = 0.6 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 20 -Num. species 20 -Num. species 

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



Birth rate-based categories: detection prob. = 0.5



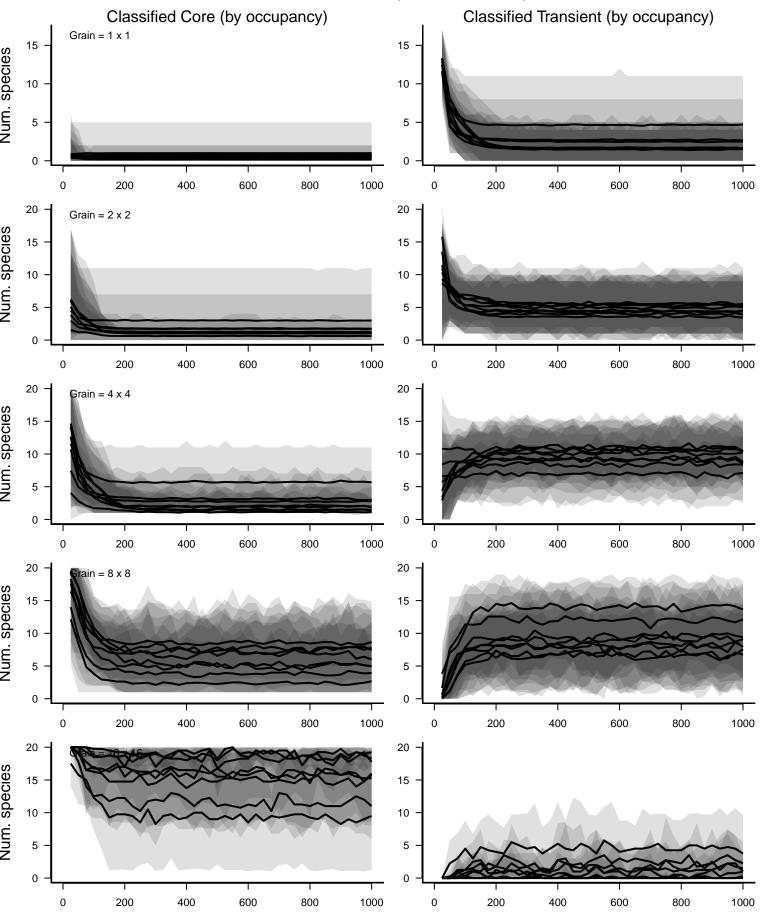
Temporal occupancy-based categories: detection prob. = 0.5 Transient Core 15 -15 -Grain = 1 x 1 Num. species 30 -Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 40 -Num. species 

Birth rate-based categories: detection prob. = 0.5 Core **Transient** 60 - $Grain = 1 \times 1$ Num. Individuals Num. Individuals 2500 2000 1500 1000 500  $Grain = 16 \times 16$ 

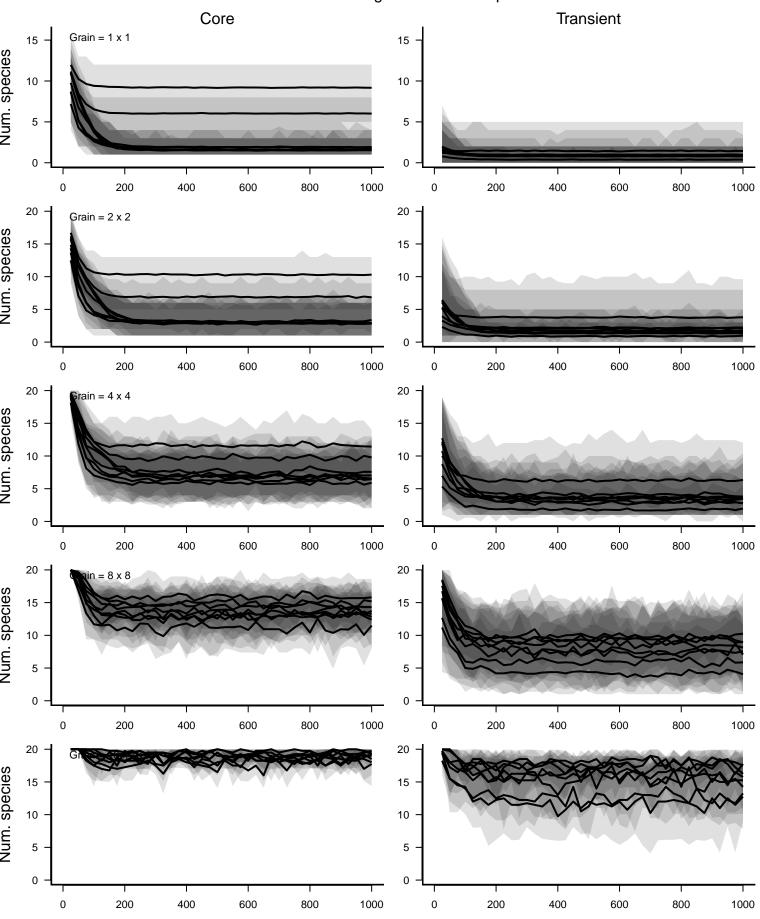
Temporal occupancy-based categories: detection prob. = 0.5 Core Transient  $Grain = 1 \times 1$ Num. Individuals Num. individuals 2500 2000 1500 1000 500 Mail 2000 8000 6000 4000 2000 

Birth rate-based Core Species: detection prob. = 0.5 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  $= 8 \times 8$ Num. species 20 -Num. species 

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

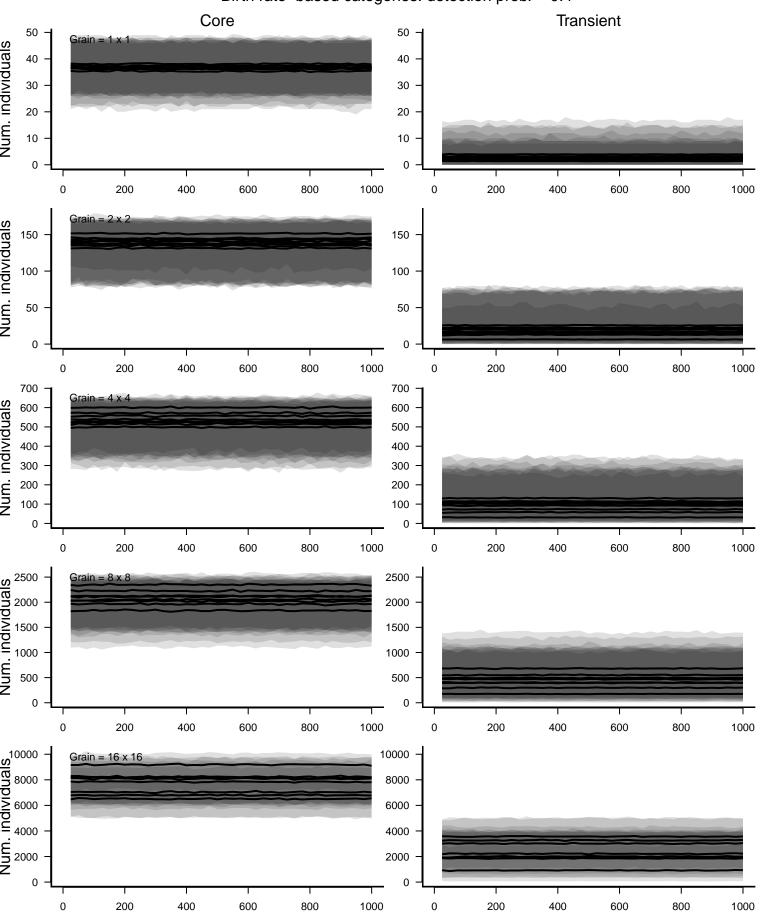


Birth rate-based categories: detection prob. = 0.4



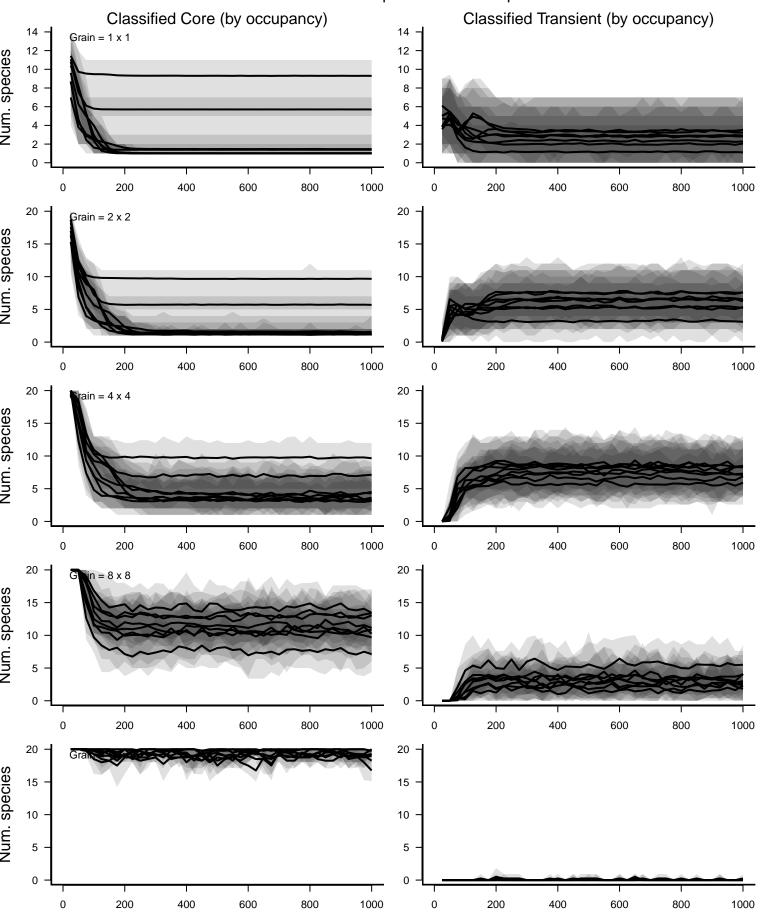
Temporal occupancy-based categories: detection prob. = 0.4 Transient Core 14 -Grain =  $1 \times 1$ Num. species Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 -Num. species 

Birth rate-based categories: detection prob. = 0.4

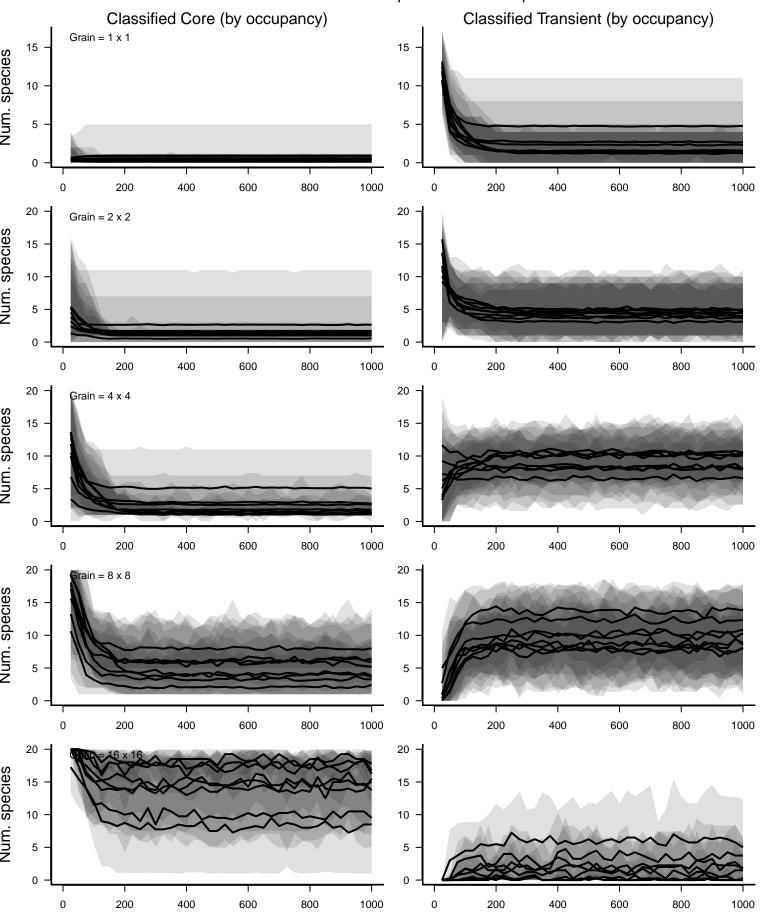


Temporal occupancy-based categories: detection prob. = 0.4 Core Grain =  $1 \times 1$ Num. Individuals Num. Individuals 2000 1500 1000 500 Num. Individuals 8000 6000 4000 2000 

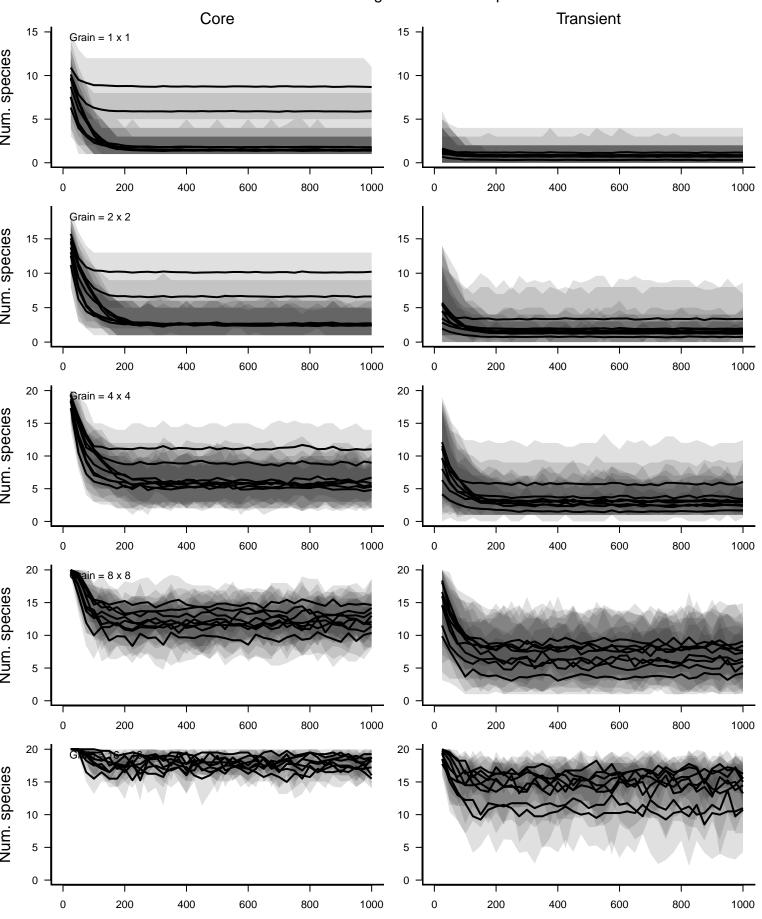
Birth rate-based Core Species: detection prob. = 0.4



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

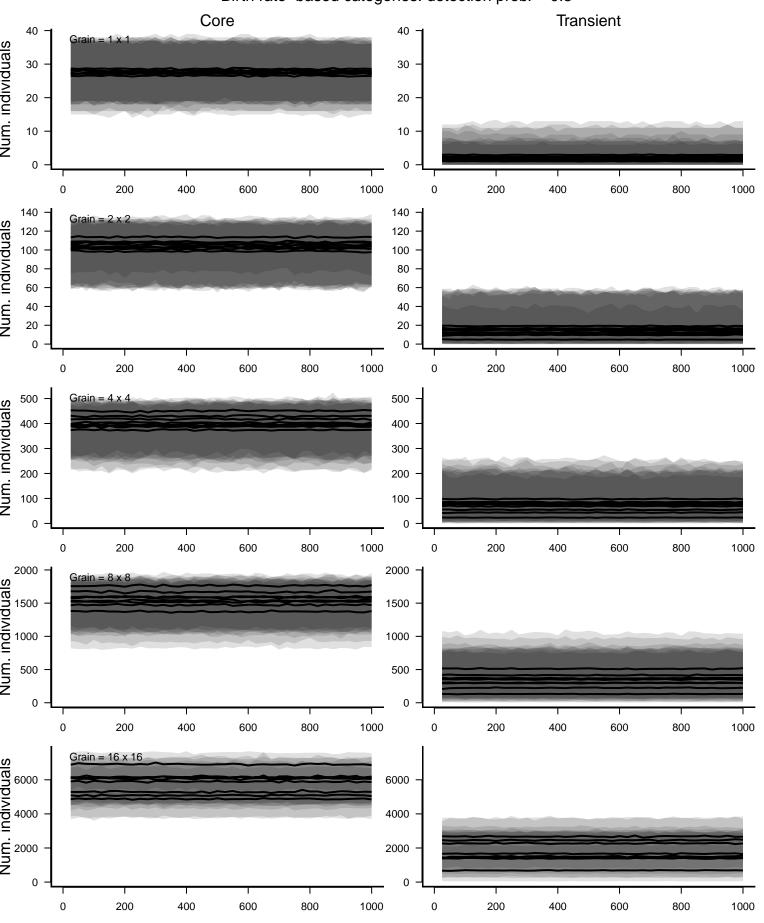


Birth rate-based categories: detection prob. = 0.3



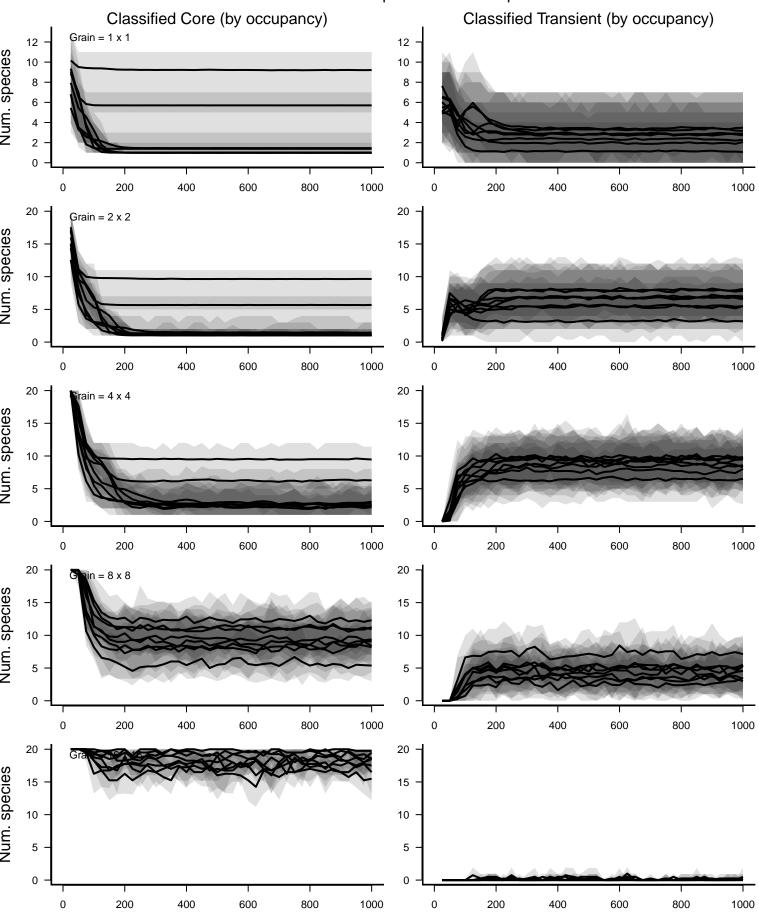
Temporal occupancy-based categories: detection prob. = 0.3 Core Transient 12 -12 -Grain =  $1 \times 1$ Num. species Grain = 2 x 2 Num. species Grain =  $4 \times 4$ Num. species 40 -Grain = 8 x 8 Num. species 10 -40 in = 16 x 16 Num. species 

Birth rate-based categories: detection prob. = 0.3 40

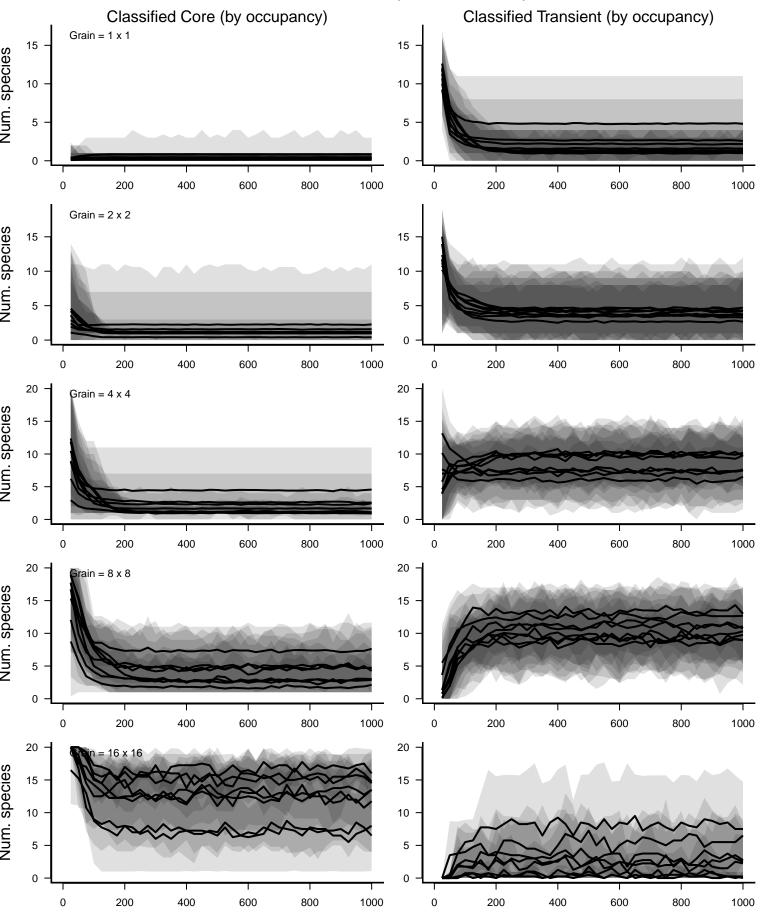


Temporal occupancy-based categories: detection prob. = 0.3 Core Transient Grain =  $1 \times 1$ Num. Individuals 140 -Num. Individuals Num. individuals 2000 -Num. 1500 1500 1000 500 Num. individuals 4000 2000 

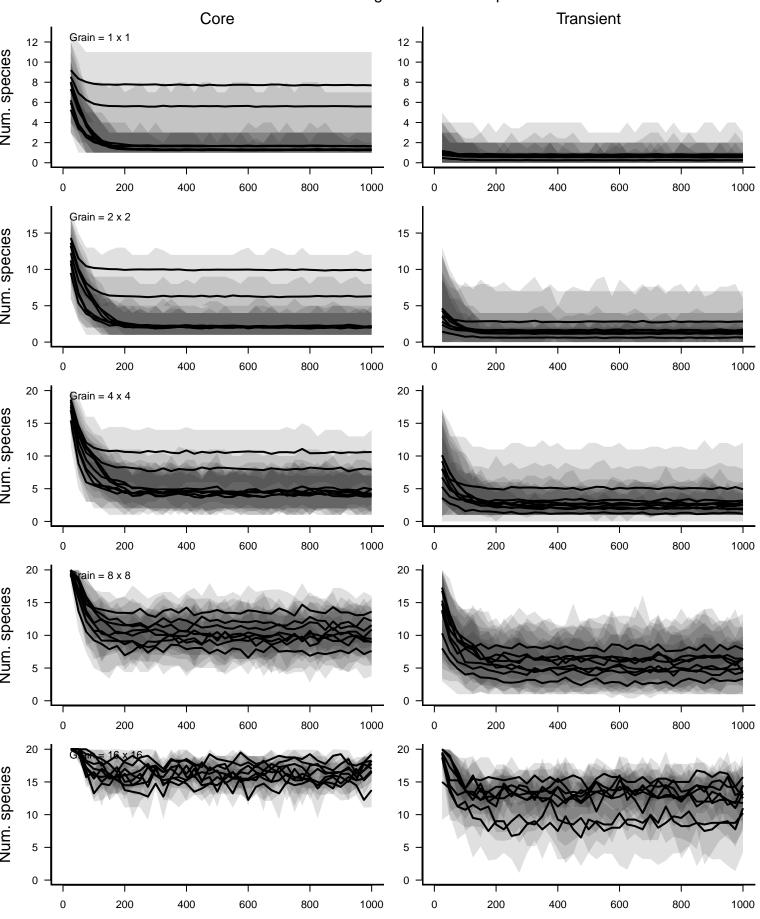
Birth rate-based Core Species: detection prob. = 0.3



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

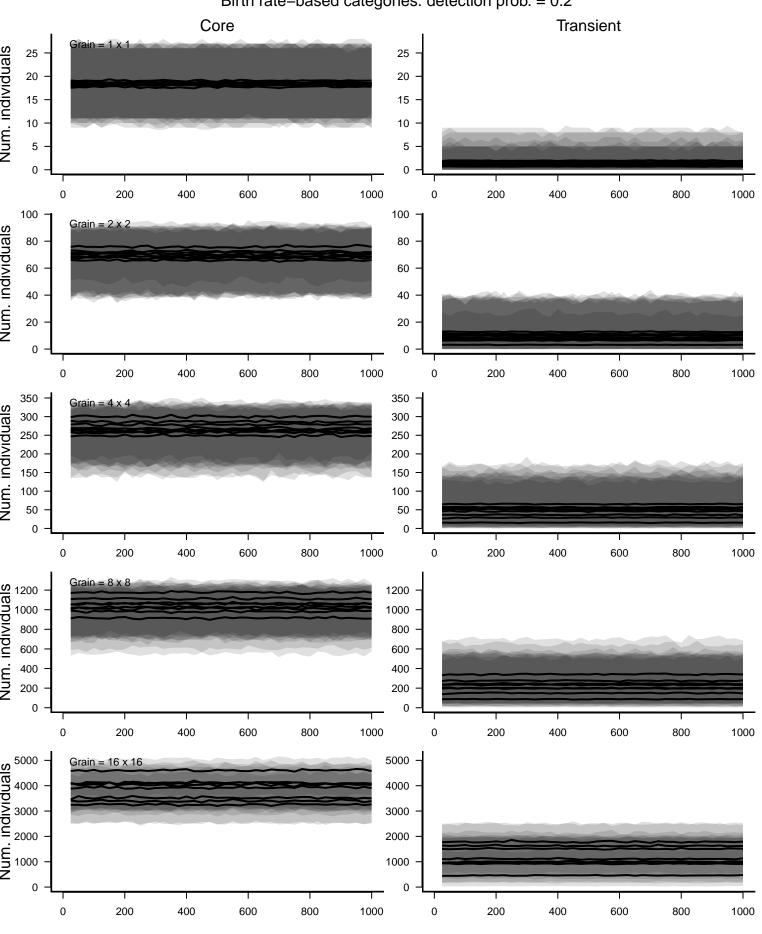


Birth rate-based categories: detection prob. = 0.2



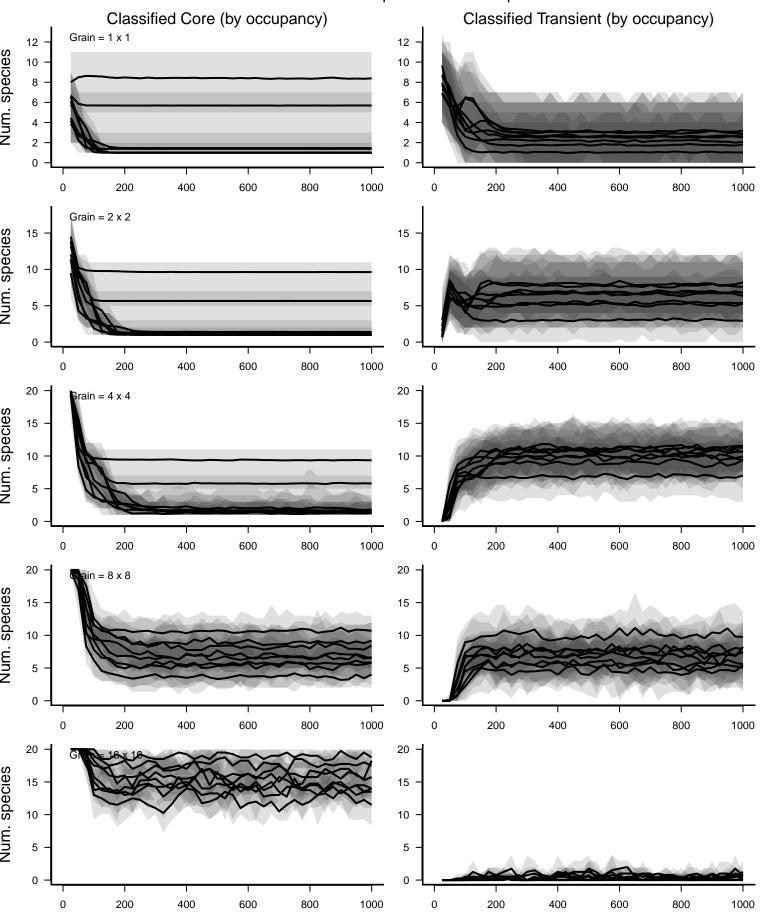
Temporal occupancy-based categories: detection prob. = 0.2 Transient Core Grain =  $1 \times 1$ Num. species 20 -Grain = 2 x 2 Num. species Grain =  $4 \times 4$ 35 -Num. species 40 -Grain = 8 x 8 Num. species 40  $ain = 16 \times 16$ Num. species 

Birth rate-based categories: detection prob. = 0.2

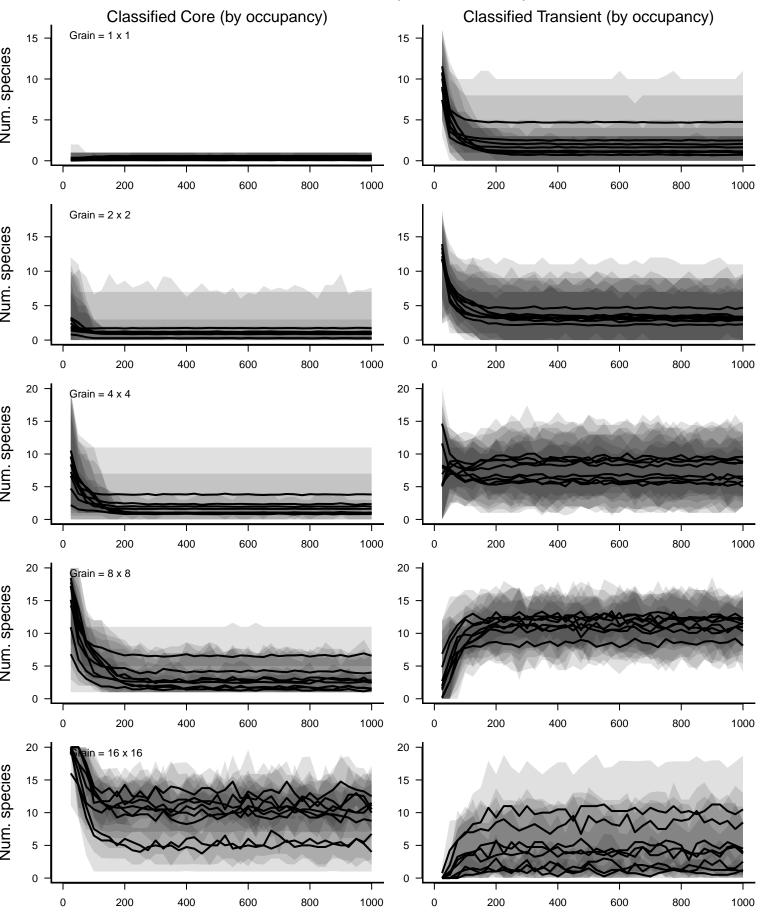


Temporal occupancy-based categories: detection prob. = 0.2 Core **Transient** Grain =  $1 \times 1$ Num. Individuals  $Grain = 2 \times 2$ Num. Individuals 350 -Num. Individuals Nam. Individuals 1000 800 600 400 200 5000 4000 4000 3000 2000 1000 

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



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

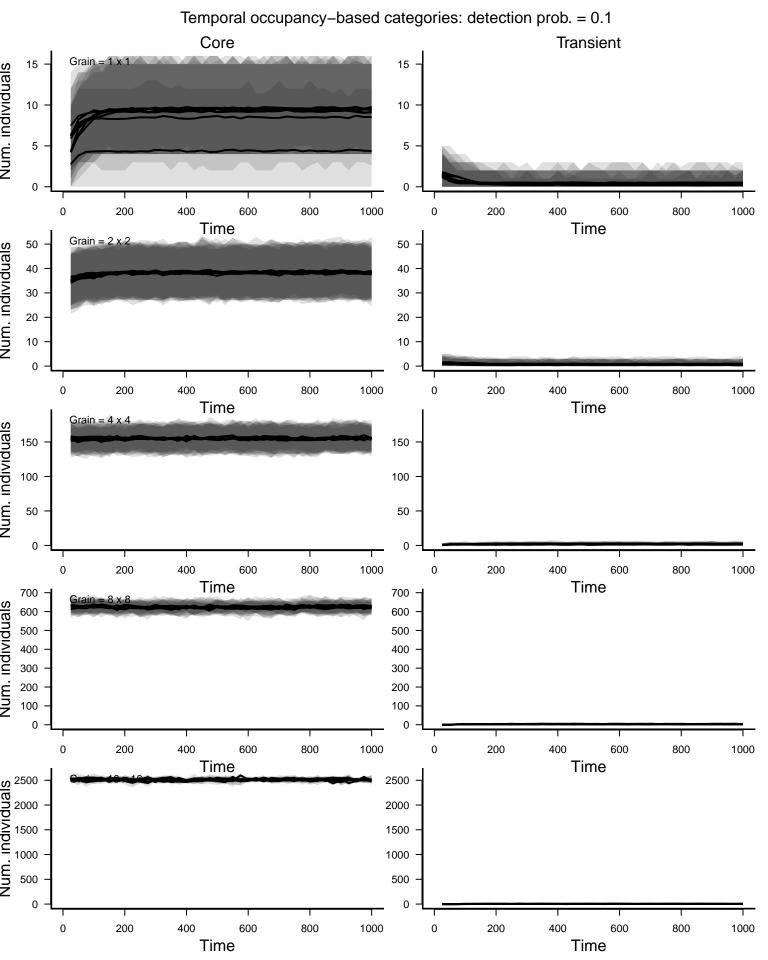


Time

Time

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

Birth rate-based categories: detection prob. = 0.1 **Transient** Core Num. Individuals Time Time Grain =  $2 \times 2$ Num. Individuals Time Time  $Grain = 4 \times 4$ Num. Individuals Time Time  $Grain = 8 \times 8$ Num. Individuals Time Time 2000 1500 1000 500  $Grain = 16 \times 16$ 2500 -Time Time



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

Time

Time

Birth rate-based Transient Species: detection prob. = 0.1 Classified Core (by occupancy) Classified Transient (by occupancy) 15 -15 -Grain =  $1 \times 1$ Num. species Time Time Grain =  $2 \times 2$ Num. species Time Time 20 -Grain =  $4 \times 4$ Num. species Time Time 20 -Grain = 8 x 8 Num. species Time Time 20 ain = 16 x 16 Num. species 

Time

Time