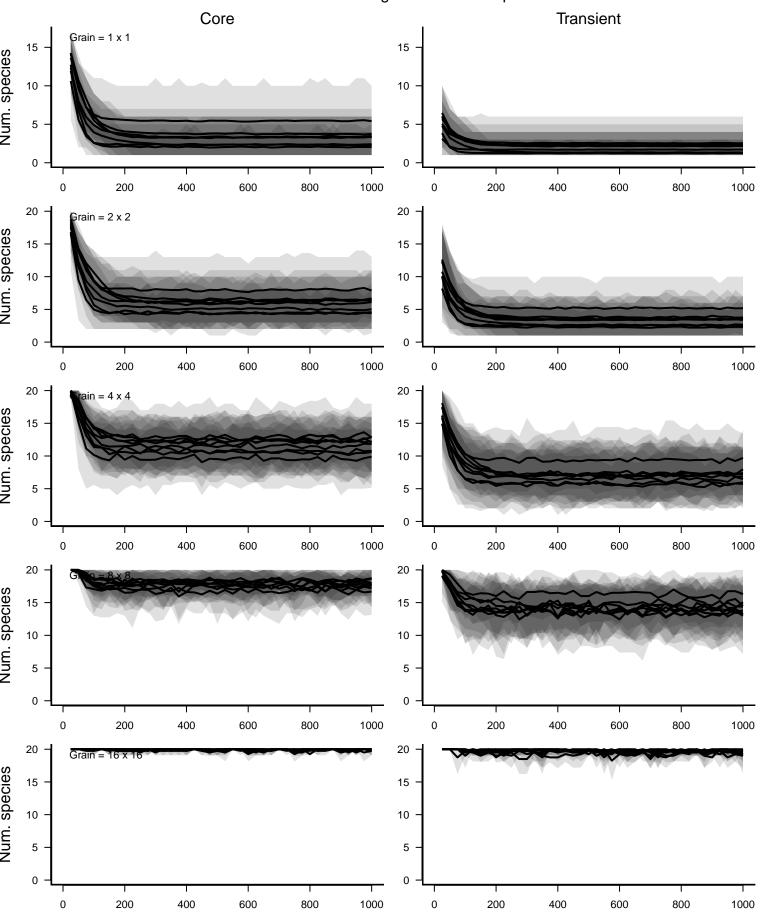
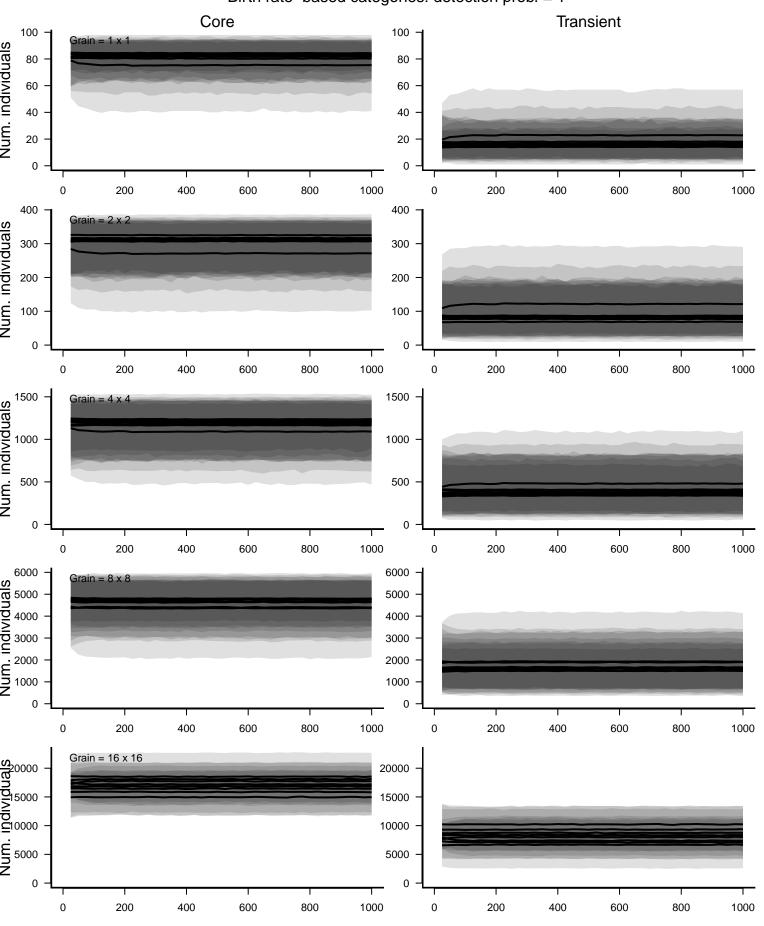
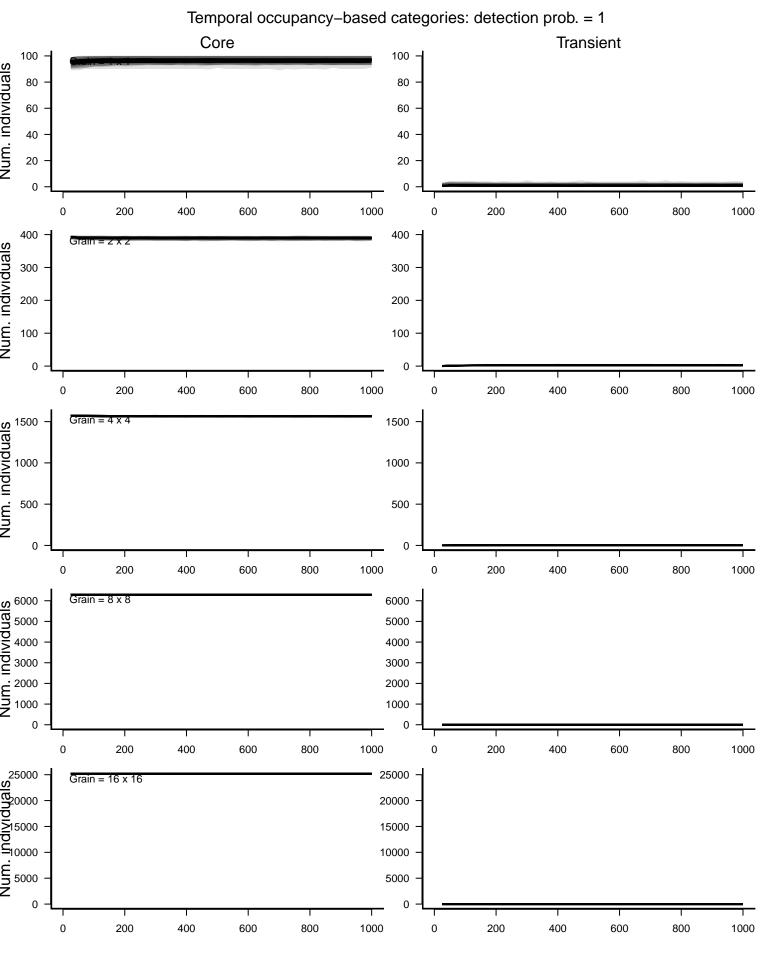
Birth rate-based categories: detection prob. = 1



Birth rate-based categories: detection prob. = 1





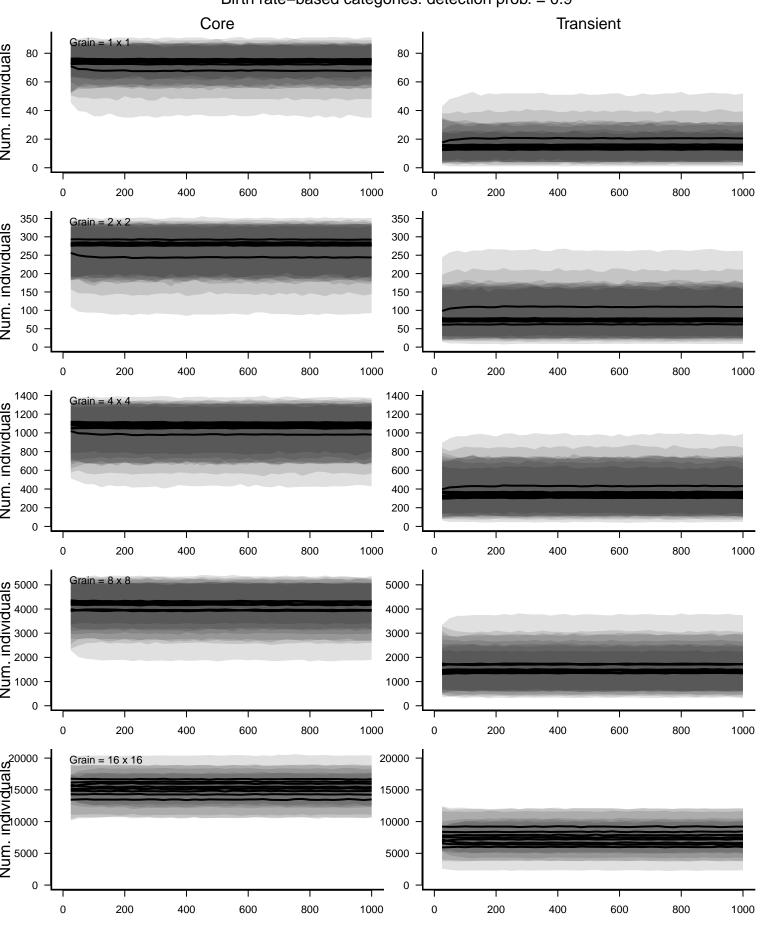
Birth rate-based Core Species: detection prob. = 1 Classified Transient (by occupancy) Classified Core (by occupancy) Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 Num. species 20 -Num. species 20 -Grain =  $16 \times 16$ Num. species 

Birth rate-based Transient Species: detection prob. = 1 Classified Core (by occupancy) Classified Transient (by occupancy) Grain =  $1 \times 1$ Num. species 20 -Grain = 2 x 2 Num. species 20 -3rain = 4 x 4 Num. species 20 - $\sin = 8 \times 8$ Num. species 20 -Num. species 

Birth rate-based categories: detection prob. = 0.9 Core Transient Grain =  $1 \times 1$ Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 Num. species 20 -Num. species Num. species 

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

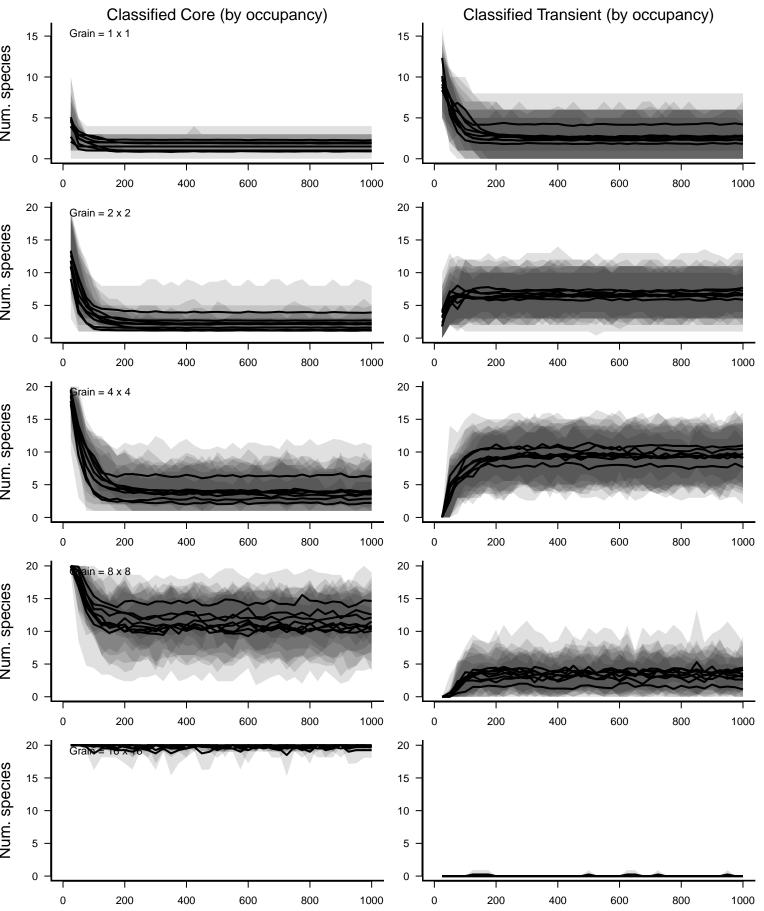
Birth rate-based categories: detection prob. = 0.9



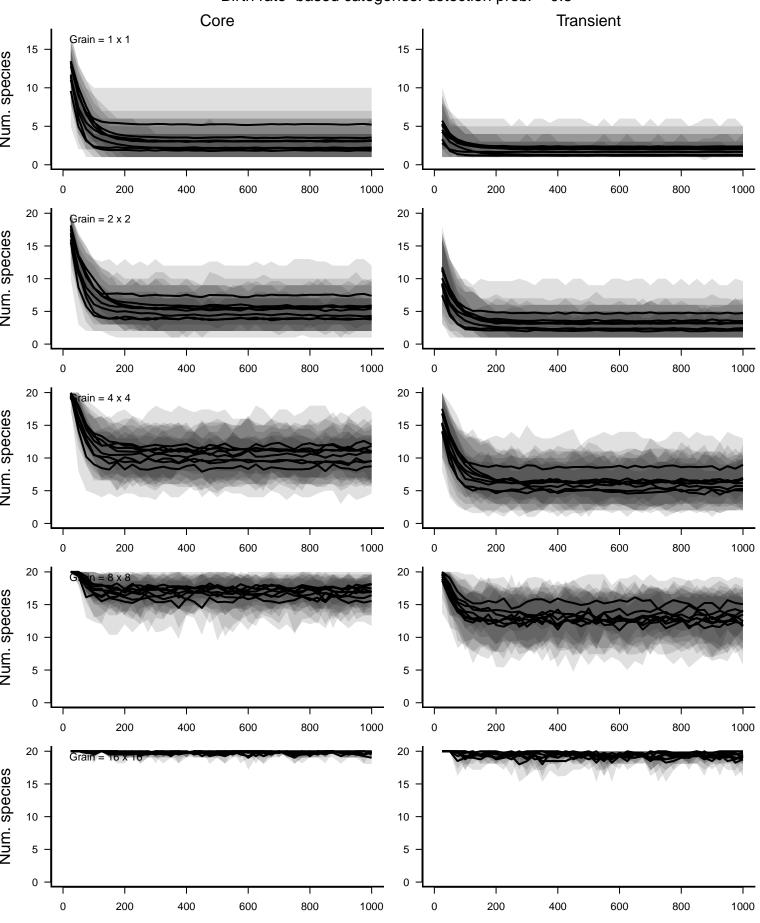
Temporal occupancy-based categories: detection prob. = 0.9 Core Transient Num. Individuals Num. Individuals Num. Individuals Grain = 8 x 8 4000 3000 2000 1000 Grain = 16 x 16 Num. individuals 50000 5000 5000 

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 Num. species 20 -Num. species 20 - $Grain = 16 \times 16$ Num. species 

Birth rate-based Transient Species: detection prob. = 0.9 15



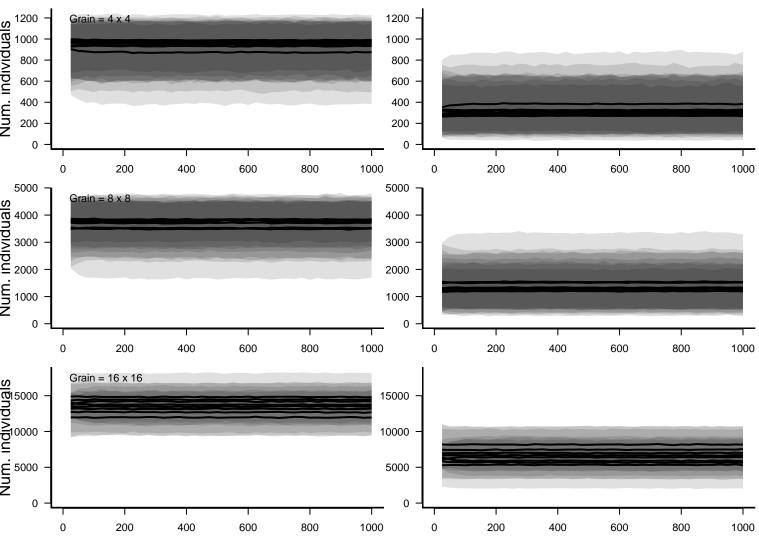
Birth rate-based categories: detection prob. = 0.8



Temporal occupancy-based categories: detection prob. = 0.8 Transient Core 20 -Grain = 1 x 1 Num. species 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 

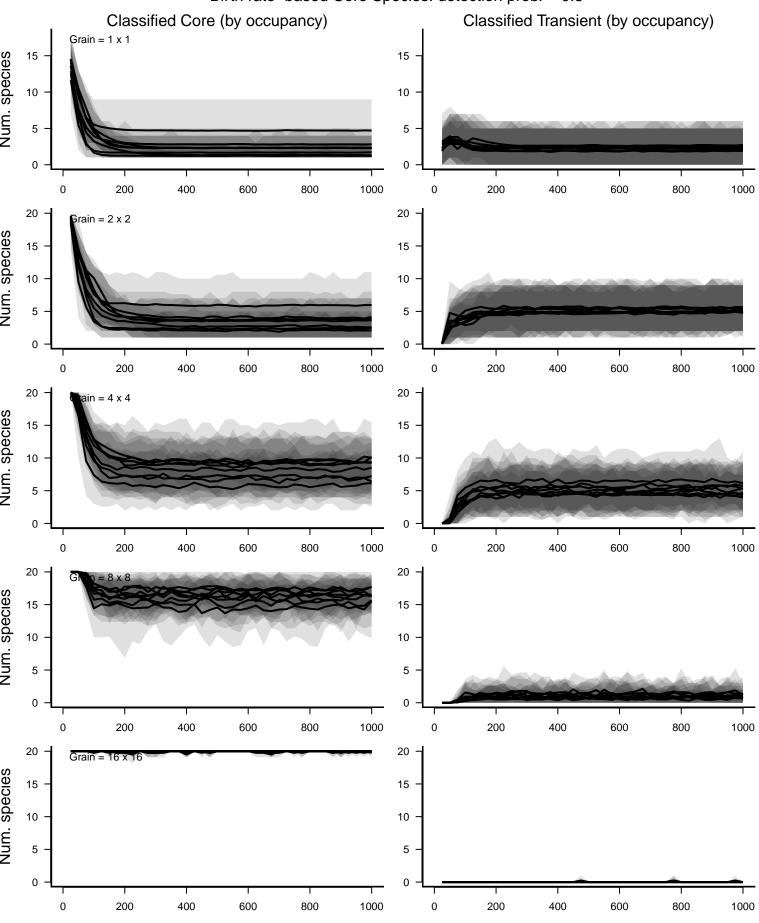
Birth rate-based categories: detection prob. = 0.8 Core **Transient**  $Grain = 1 \times 1$ Grain =  $2 \times 2$  $Grain = 4 \times 4$ Grain = 8 x 8 

Num. individuals

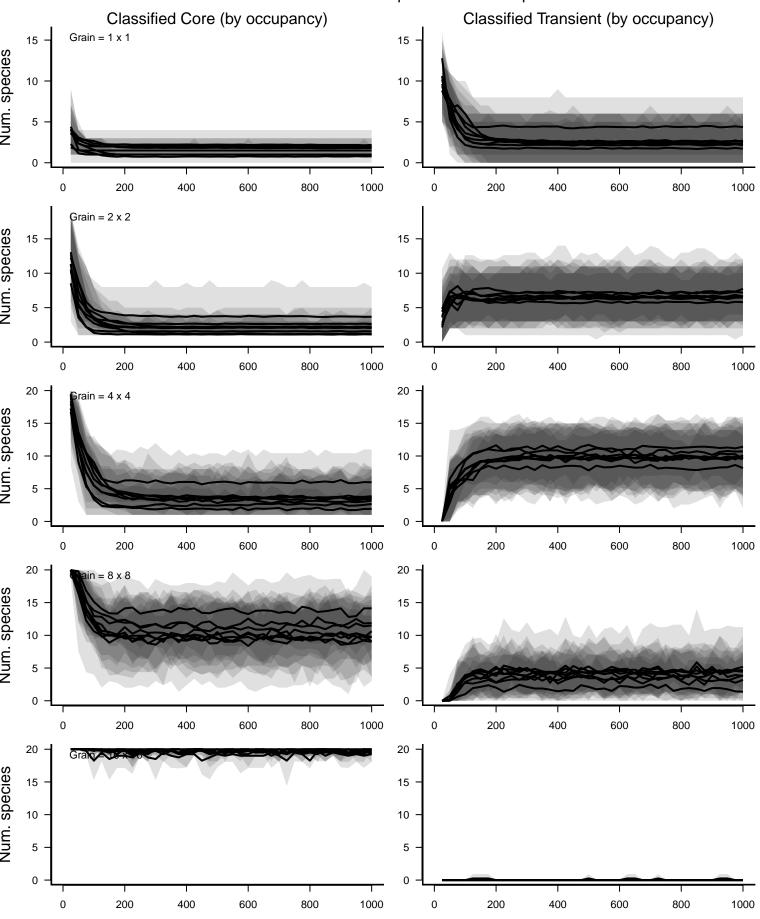


Temporal occupancy-based categories: detection prob. = 0.8 Core **Transient** Num. Individuals Num. individuals Num. Individuals 1000 800 600 400 200 4000 3000 2000 1000 5000 -Grain = 8 x 8 Individuals 15000 5000 20000 -Grain = 16 x 16 

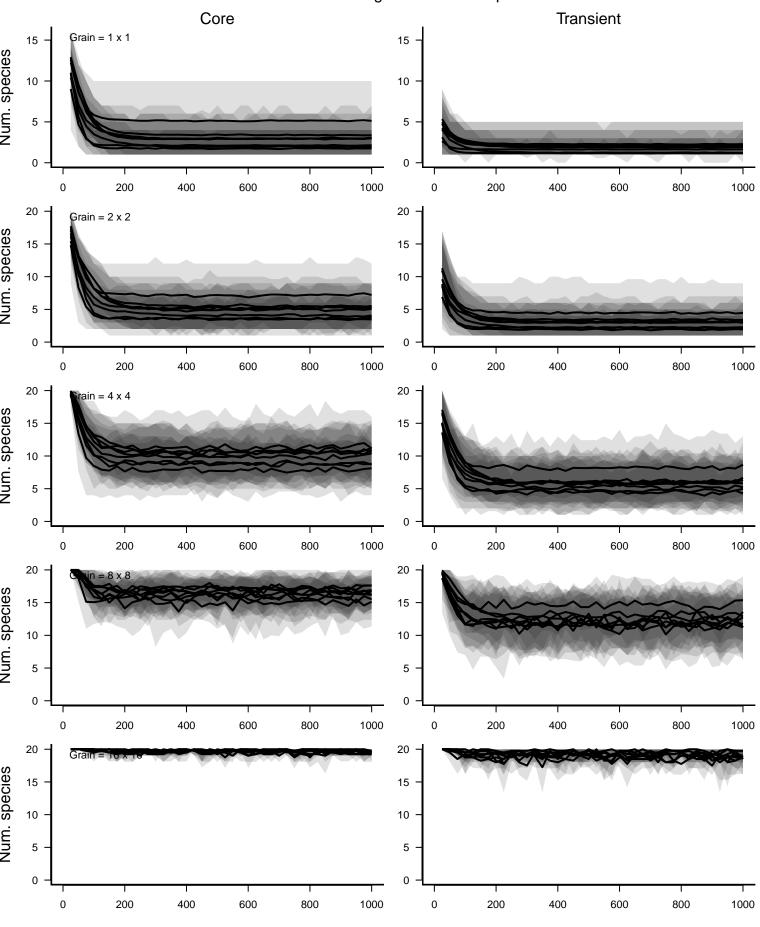
Birth rate-based Core Species: detection prob. = 0.8



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

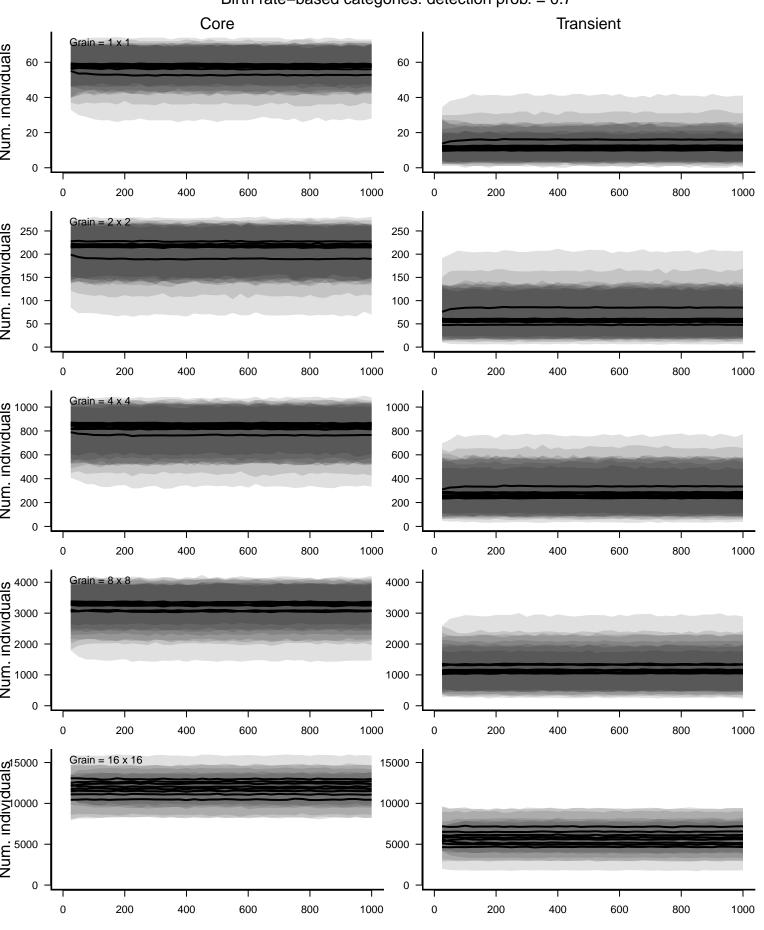


Birth rate-based categories: detection prob. = 0.7



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

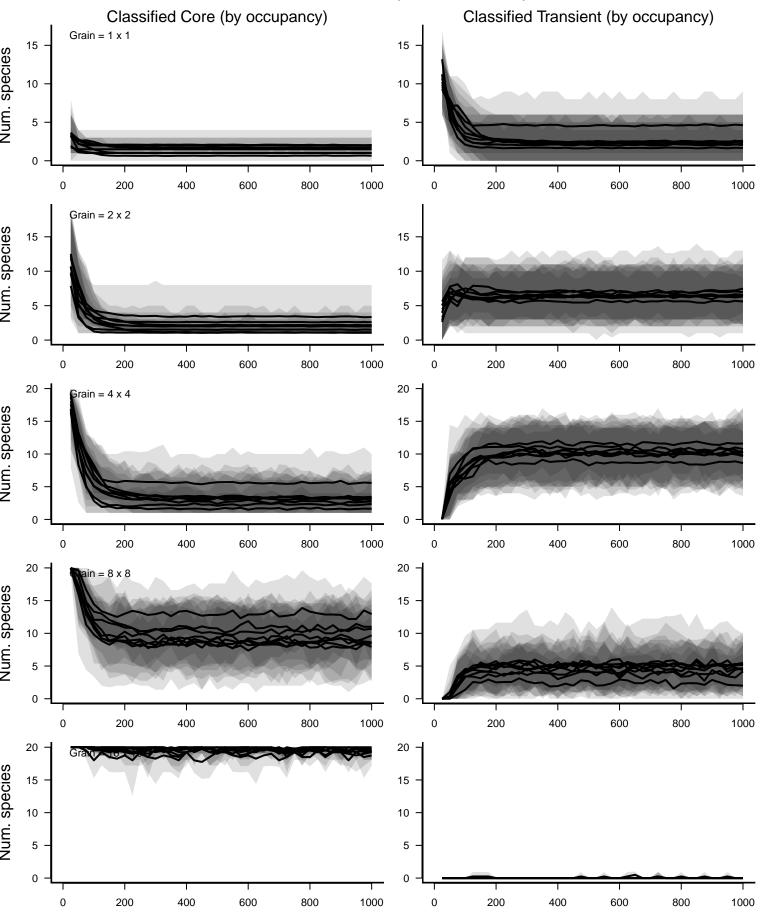
Birth rate-based categories: detection prob. = 0.7



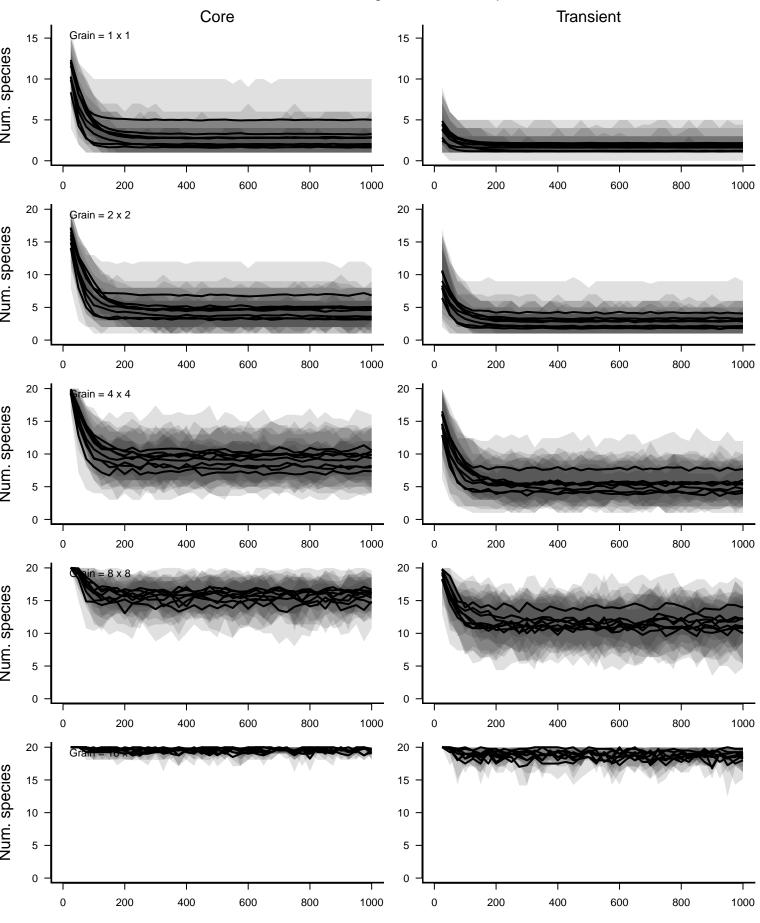
Temporal occupancy-based categories: detection prob. = 0.7 Core Transient Num. Individuals Num. Individuals Num. individuals 3000 2000 1000 Grain = 16 x 16 Num. Individuals 10000 5000 

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

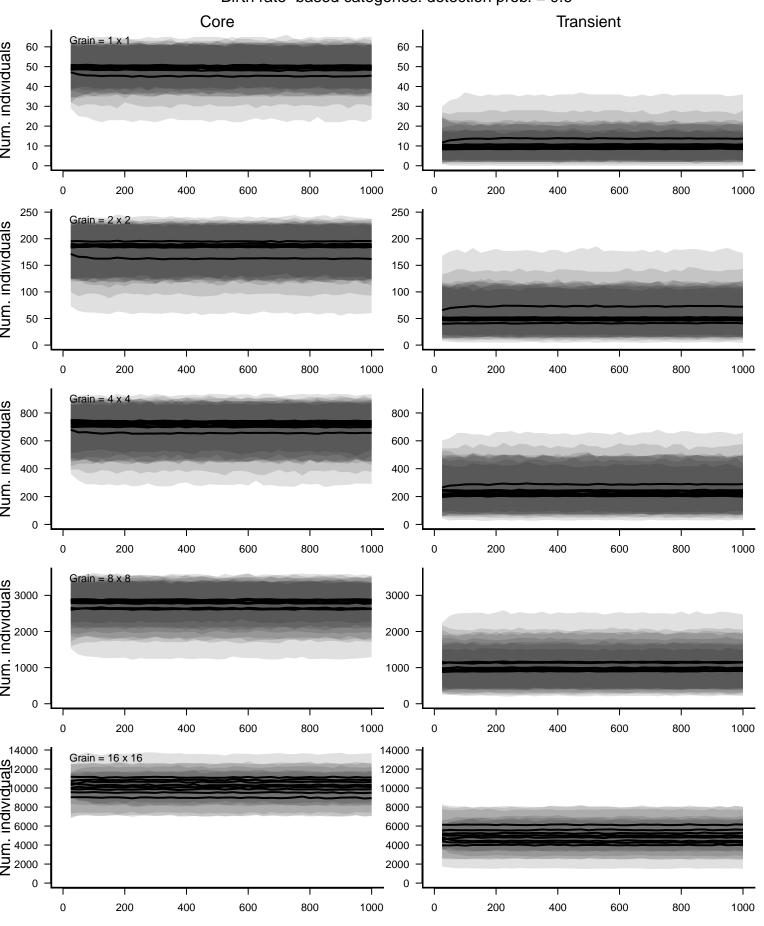


Birth rate-based categories: detection prob. = 0.6



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 ain = 8 x 8 Num. species 40 -Num. species 

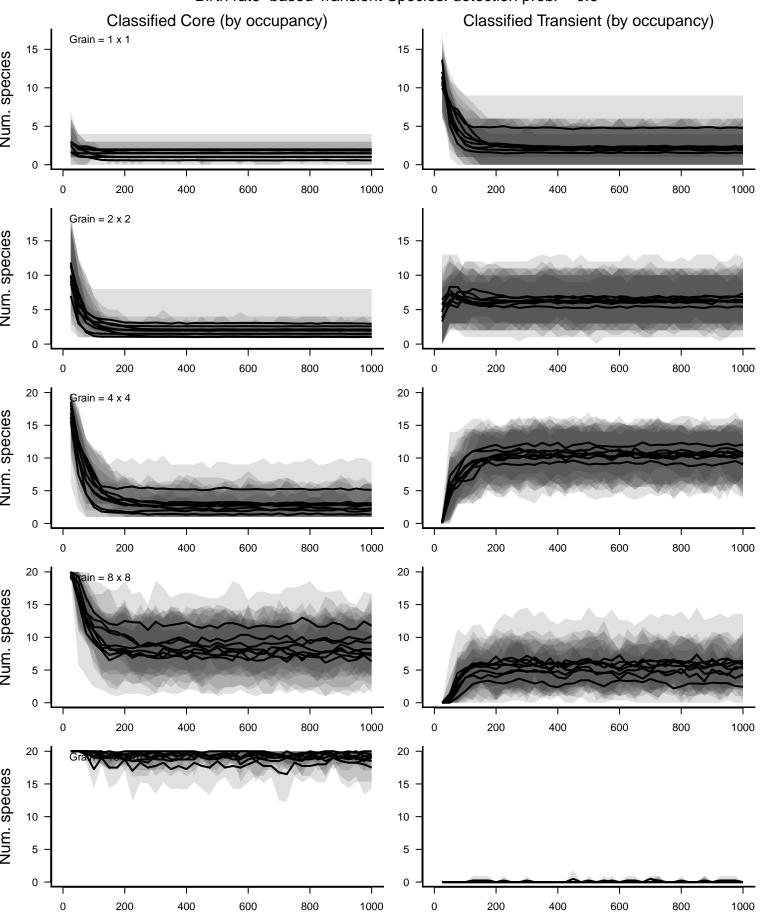
Birth rate-based categories: detection prob. = 0.6



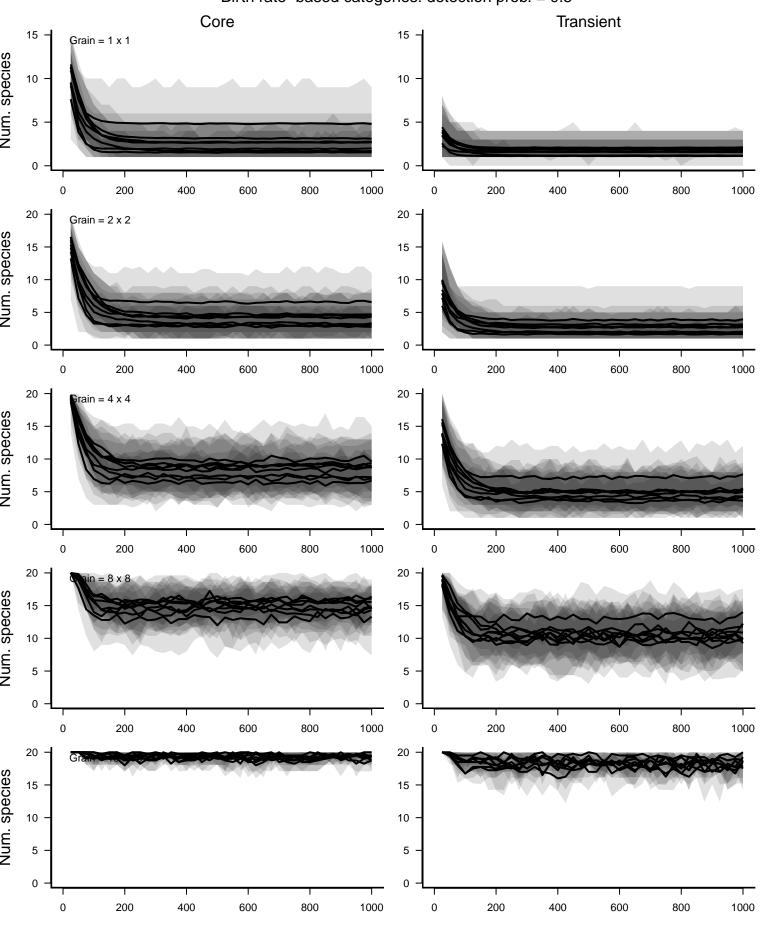
Temporal occupancy-based categories: detection prob. = 0.6 Core Transient Num. Individuals 250 -Num. individuals 1000 -Num. Individuals 2000 mg/signal supplied in the Num. individuals. 15000 -

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 - $= 8 \times 8$ Num. species 20 -Grain = 16 x 16 Num. species 

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

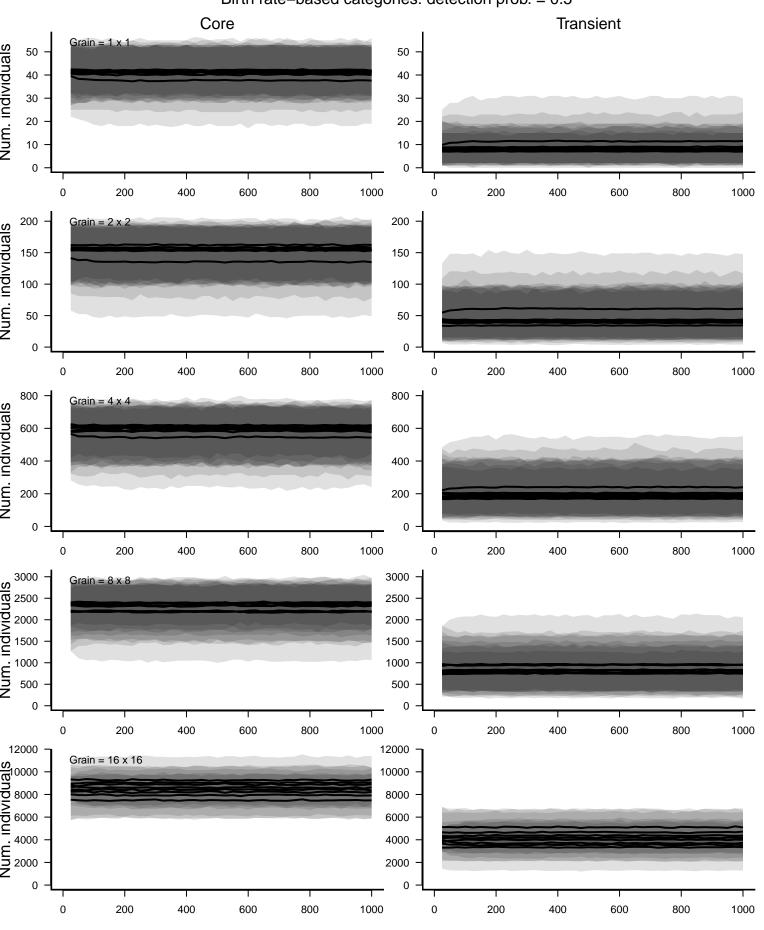


Birth rate-based categories: detection prob. = 0.5



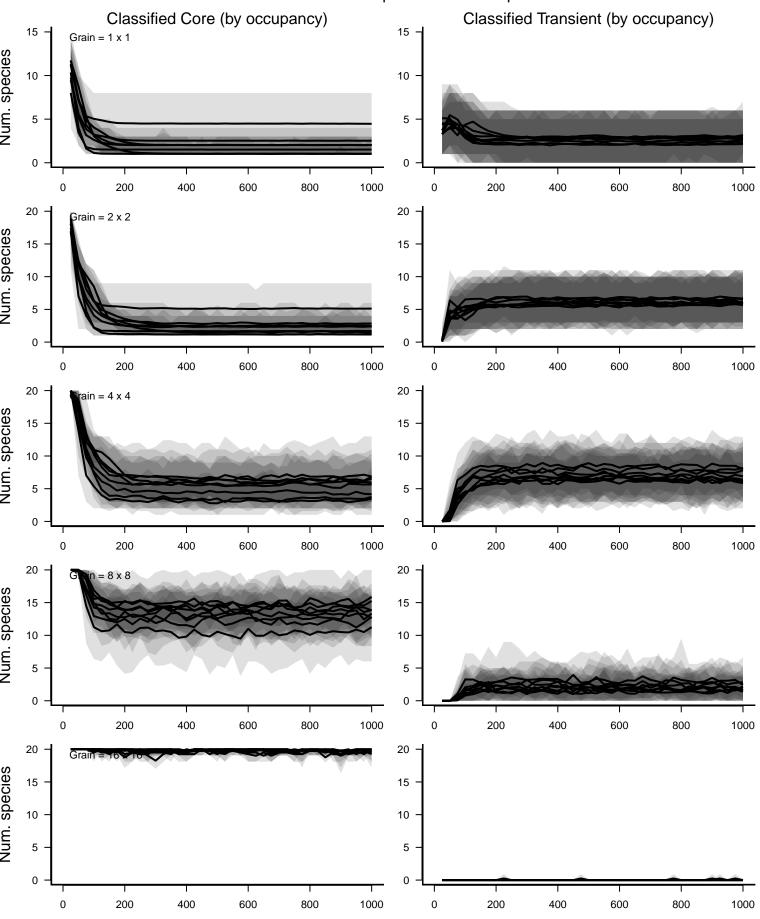
Temporal occupancy-based categories: detection prob. = 0.5 Core Transient 15 -15 -Grain = 1 x 1 Num. species 30 -30 -Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 40 -Num. species 

Birth rate-based categories: detection prob. = 0.5

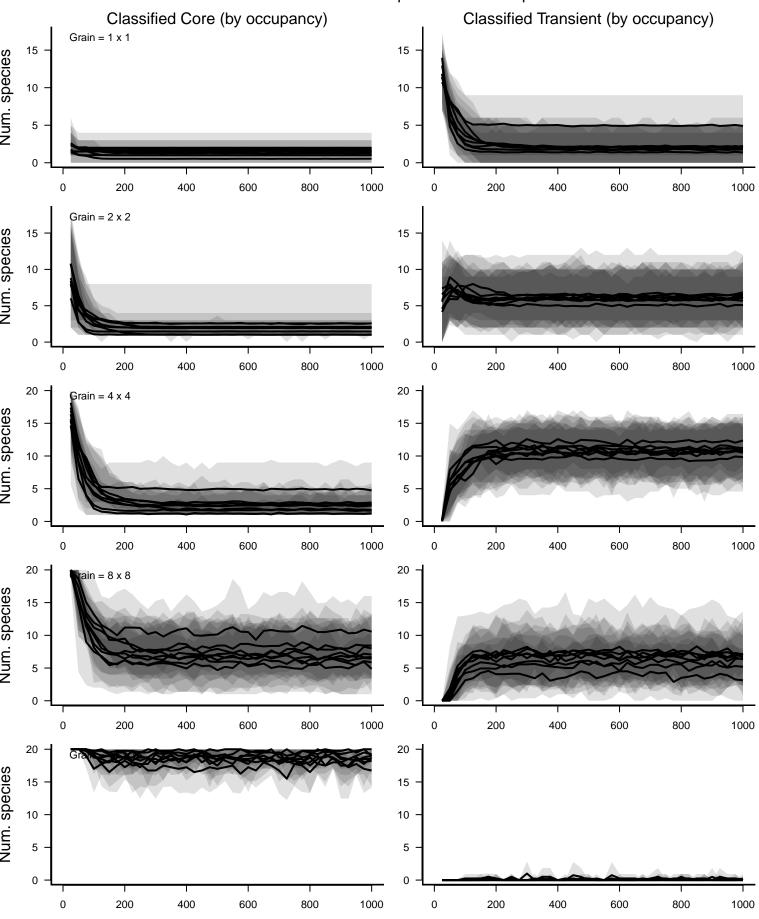


Temporal occupancy-based categories: detection prob. = 0.5 Core Transient  $Grain = 1 \times 1$ Num. Individuals Num. Individuals 2500 2000 1500 1000 500 Mail 2000 8000 6000 4000 2000 

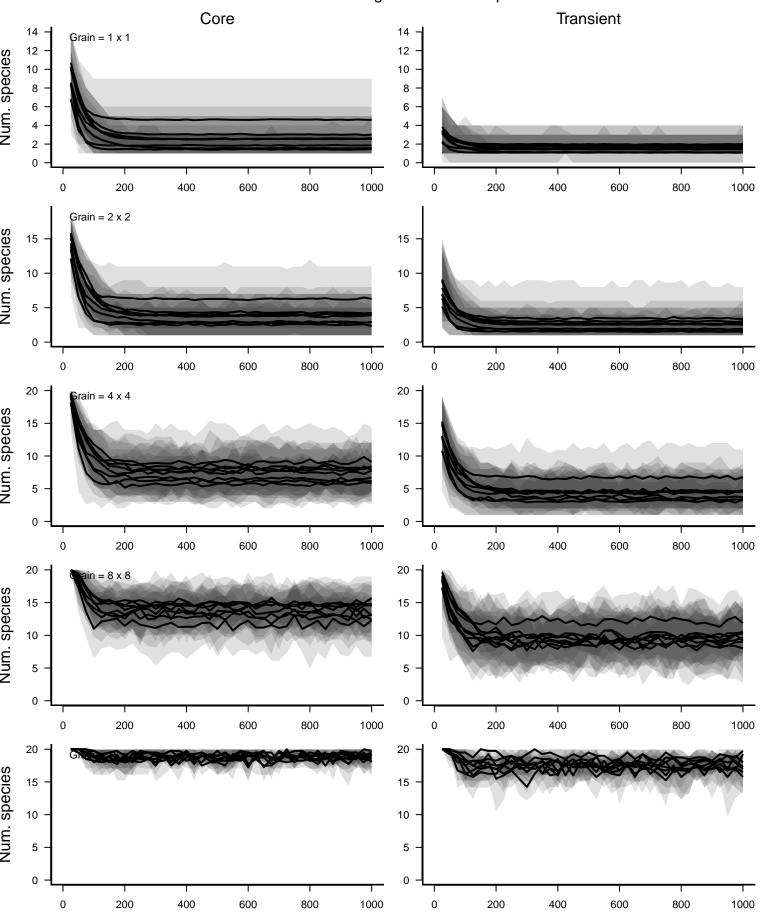
Birth rate-based Core Species: detection prob. = 0.5



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

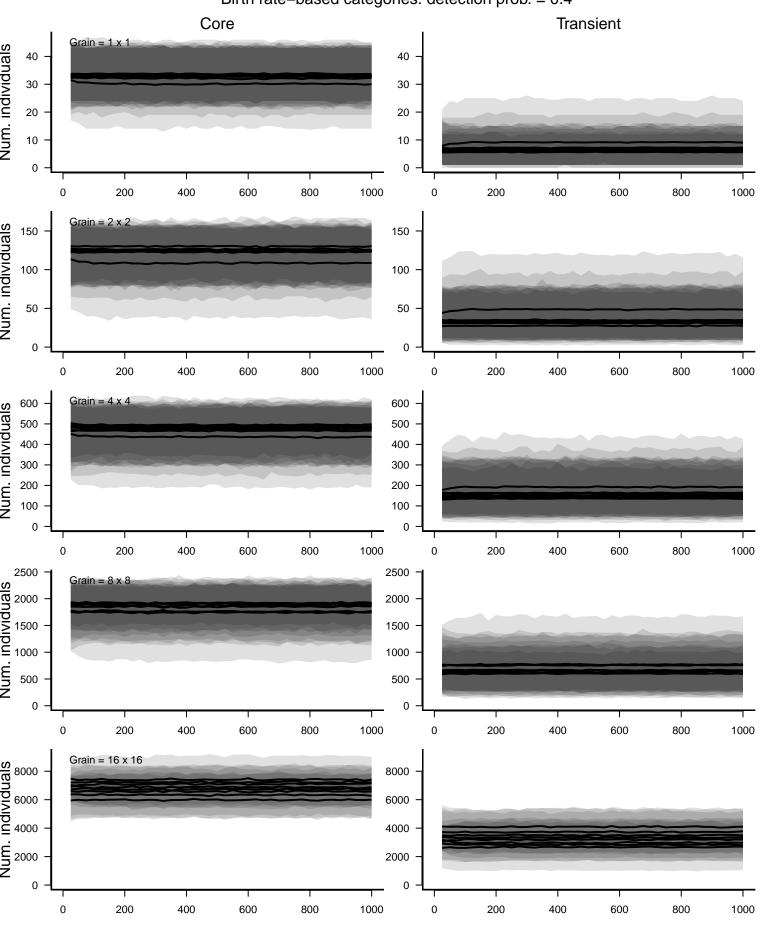


Birth rate-based categories: detection prob. = 0.4



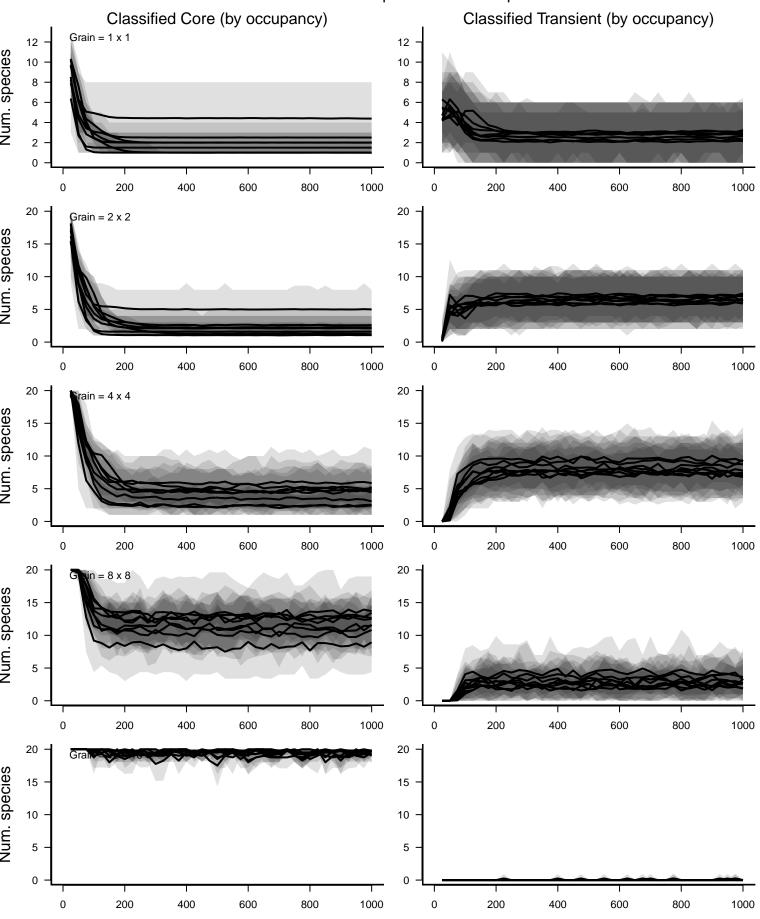
Temporal occupancy-based categories: detection prob. = 0.4 Transient Core Grain =  $1 \times 1$ Num. species Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 10 -40 -Num. species 

Birth rate-based categories: detection prob. = 0.4

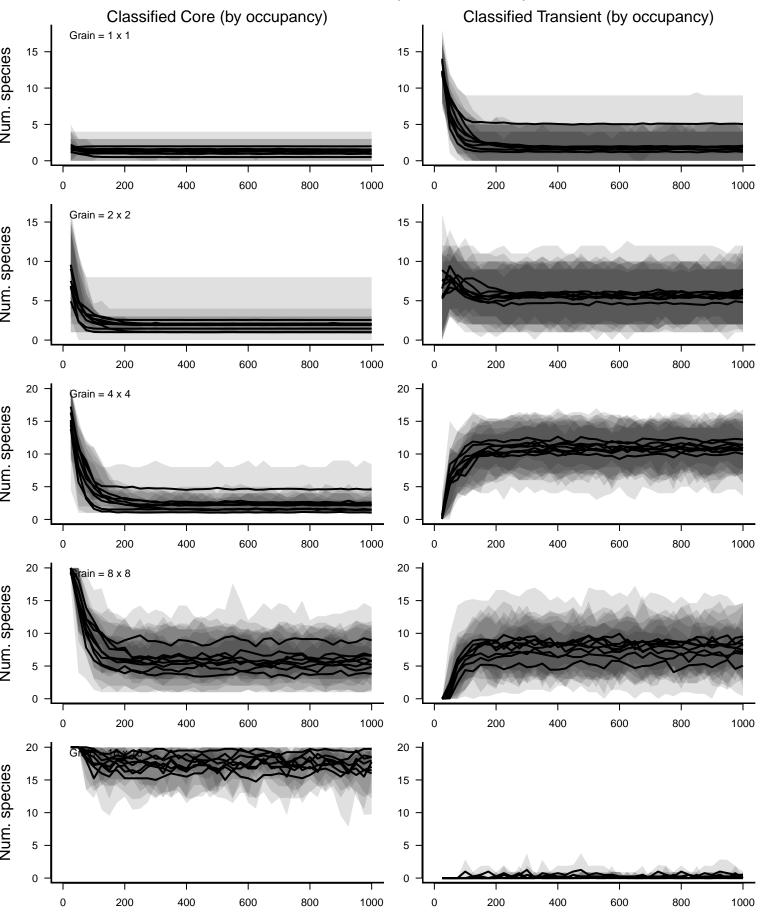


Temporal occupancy-based categories: detection prob. = 0.4 Core 50 -Grain =  $1 \times 1$ Num. Individuals Num. Individuals Num. Individuals 2000 1500 1000 500 Num. Individuals 8000 8000 4000 4000 2000 

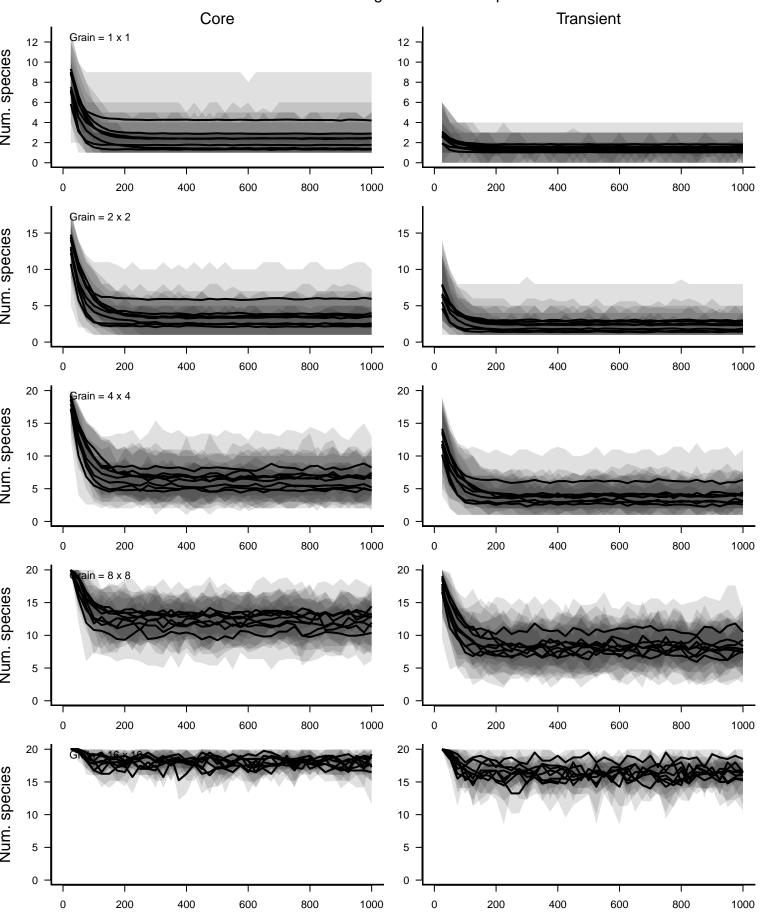
Birth rate-based Core Species: detection prob. = 0.4



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

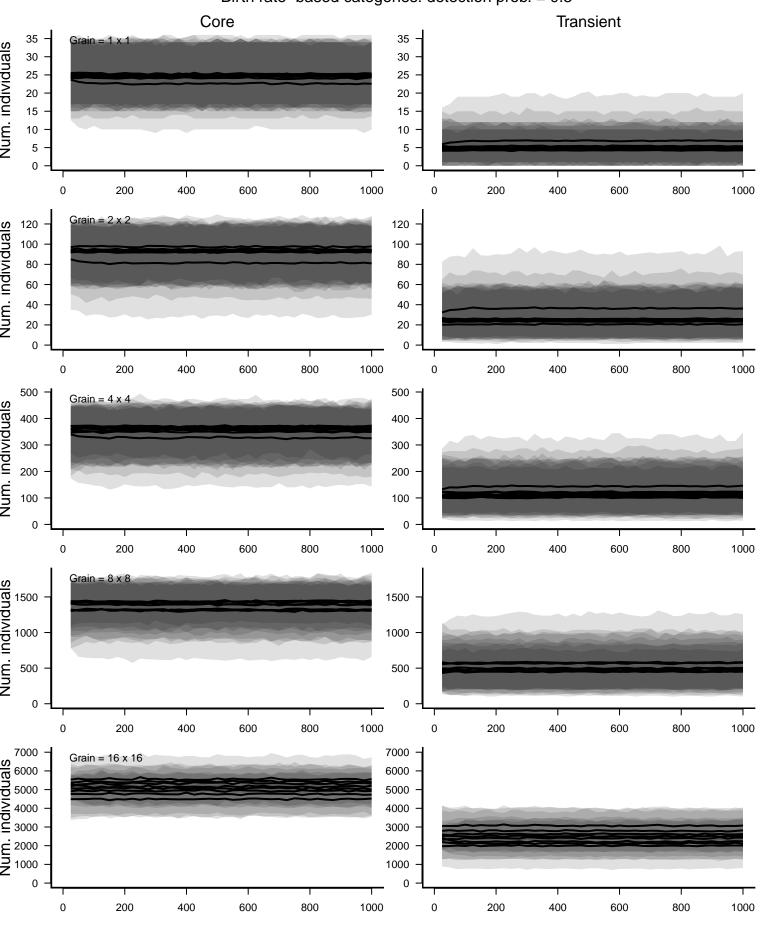


Birth rate-based categories: detection prob. = 0.3



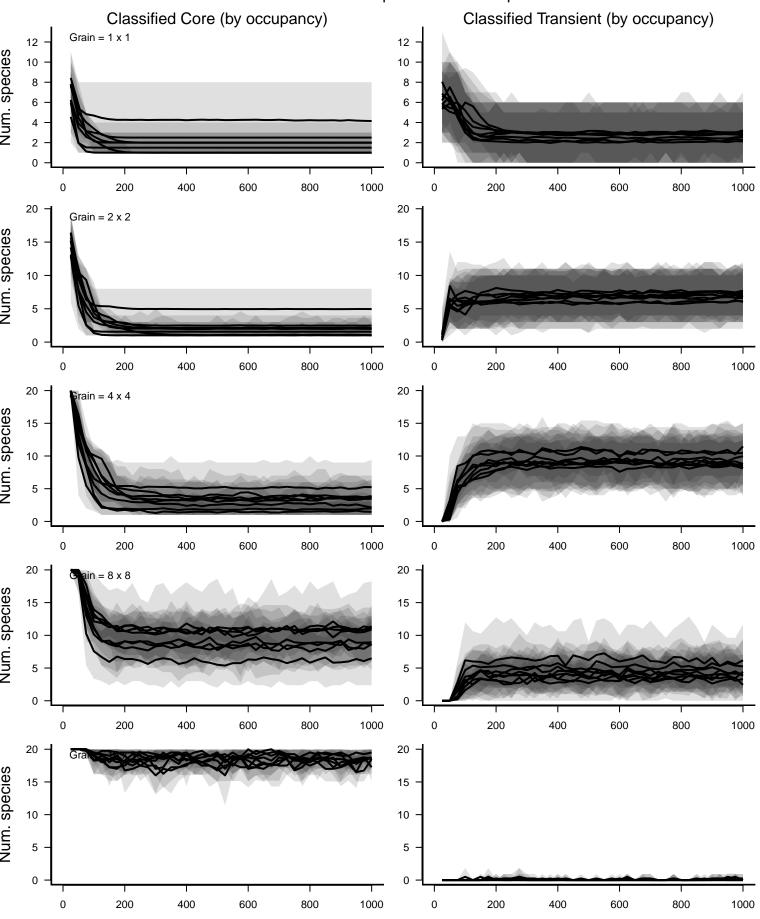
Temporal occupancy–based categories: detection prob. = 0.3 Core Transient Grain =  $1 \times 1$ Num. species Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 -Num. species 

Birth rate-based categories: detection prob. = 0.3

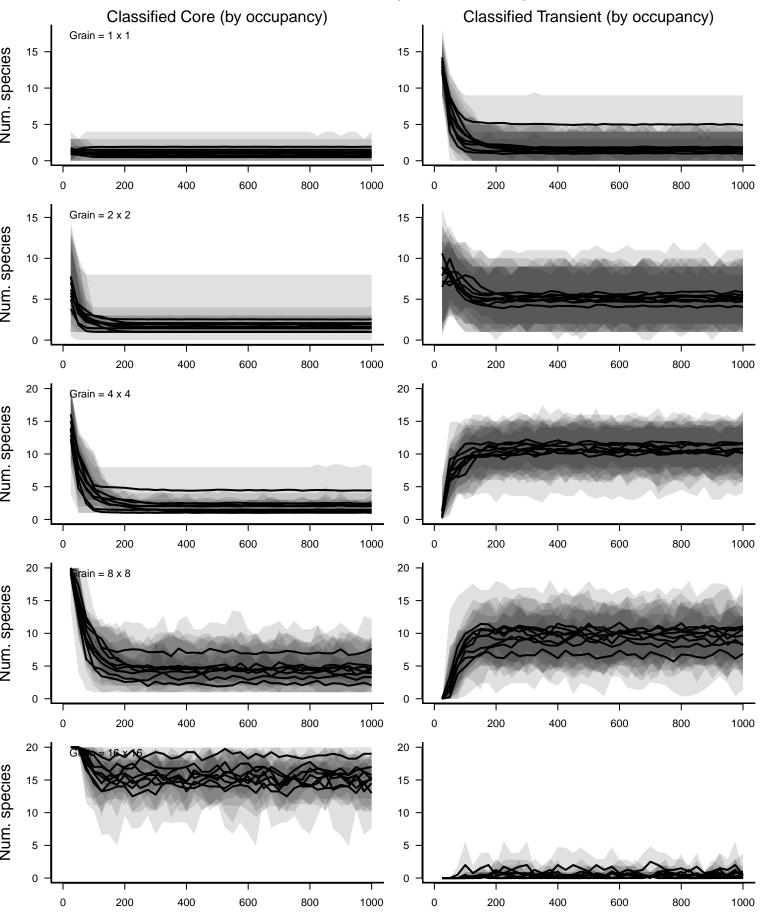


Temporal occupancy-based categories: detection prob. = 0.3 Core Transient Grain =  $1 \times 1$ Num. Individuals Num. Individuals Num. individuals 2000 -Num. individuals 1500 1000 500 9000 and 1000 and 100 

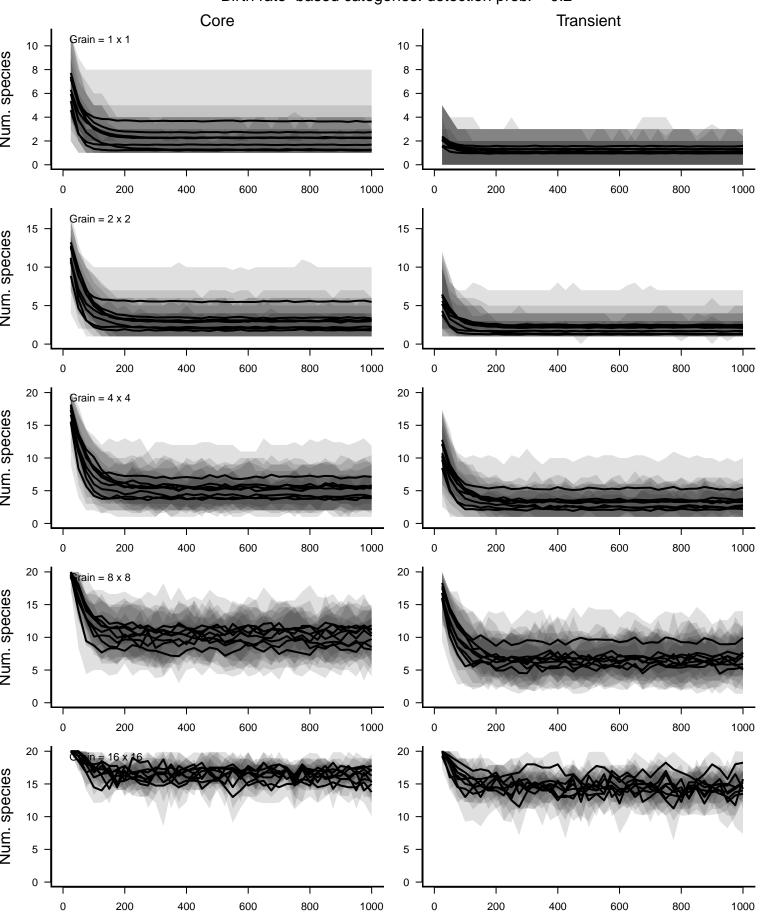
Birth rate-based Core Species: detection prob. = 0.3



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

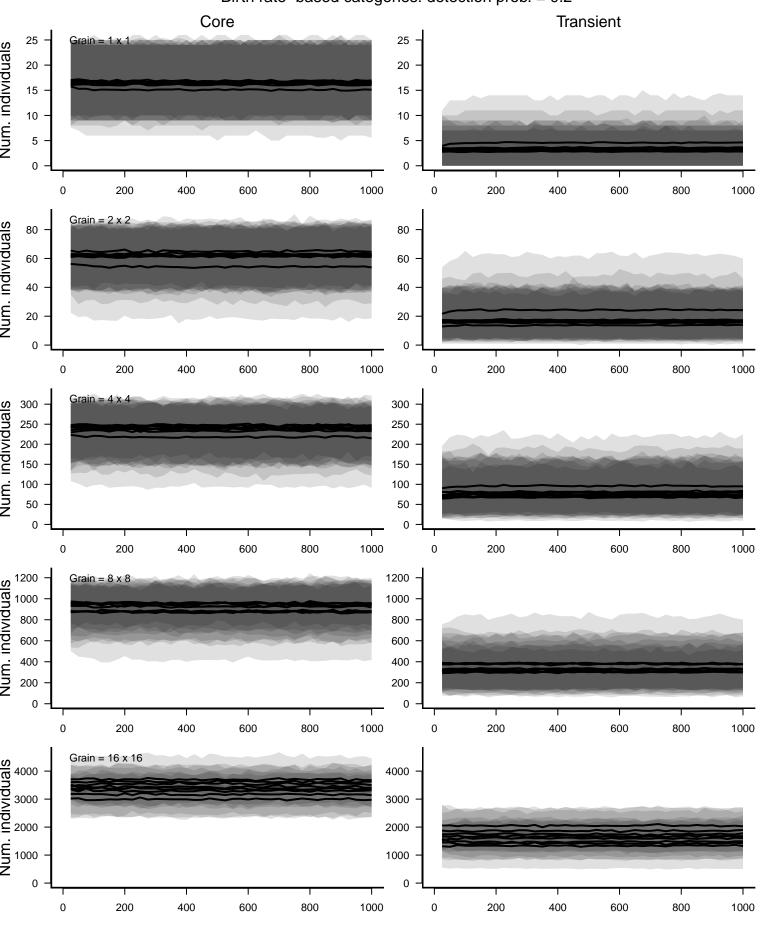


Birth rate-based categories: detection prob. = 0.2



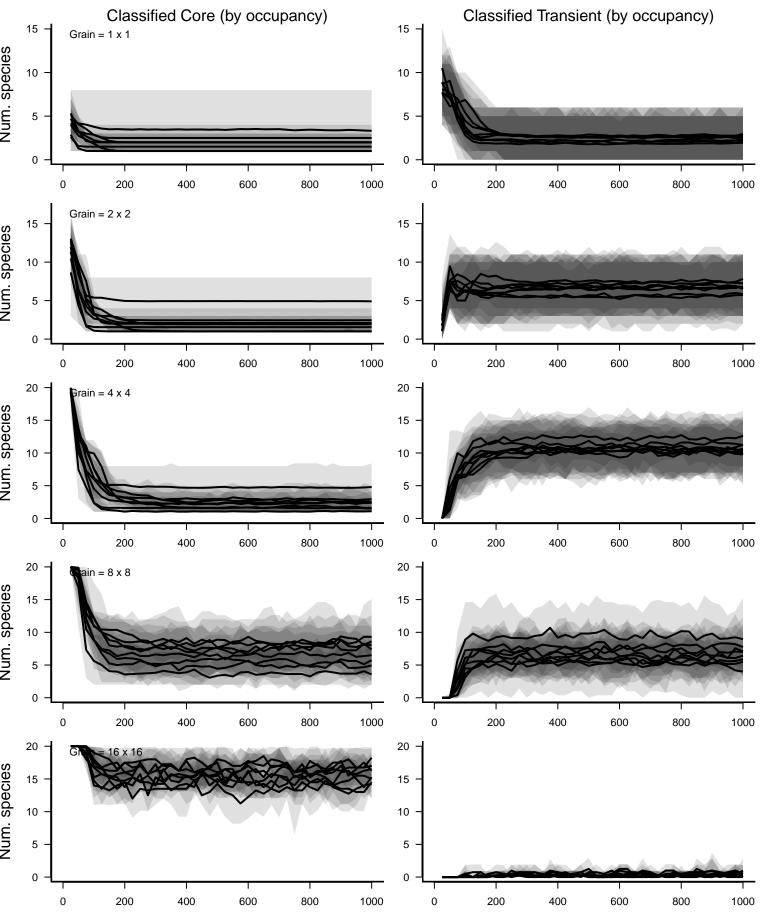
Temporal occupancy-based categories: detection prob. = 0.2 Transient Core 8 -Grain =  $1 \times 1$ Num. species 20 -Grain = 2 x 2 Num. species Grain =  $4 \times 4$ Num. species 40 -Grain = 8 x 8 Num. species 40 in = 16 x 16 Num. species 

Birth rate-based categories: detection prob. = 0.2

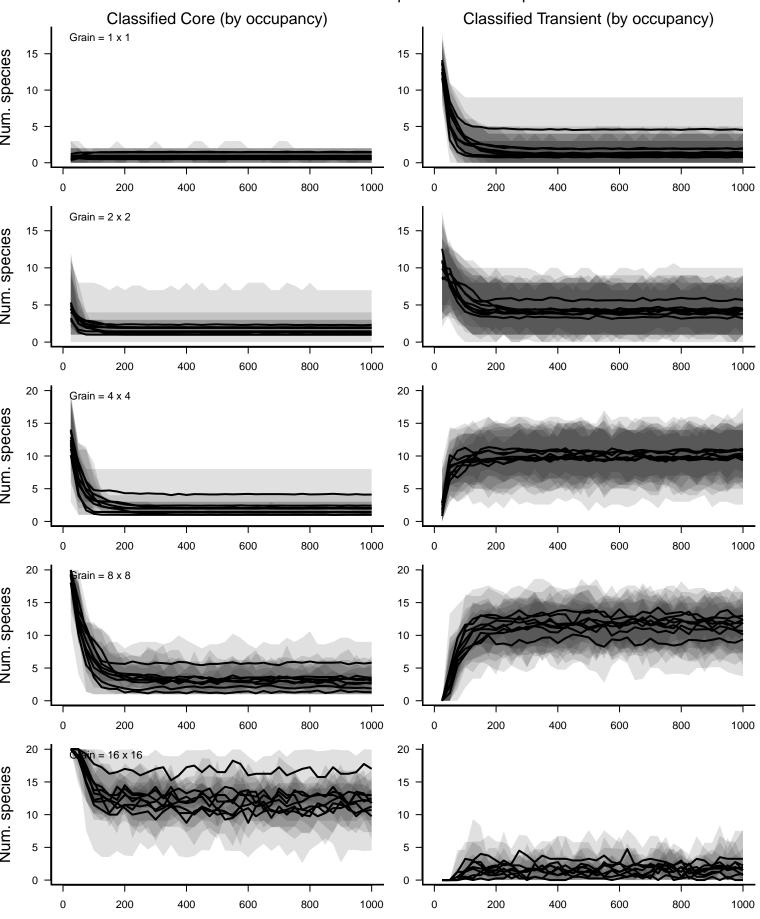


Temporal occupancy-based categories: detection prob. = 0.2 Core **Transient** Grain =  $1 \times 1$ Num. Individuals  $Grain = 2 \times 2$ Num. Individuals 350 -Num. Individuals Num. individuals 1000 1000 800 600 400 200 5000 4000 4000 3000 2000 1000 

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



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

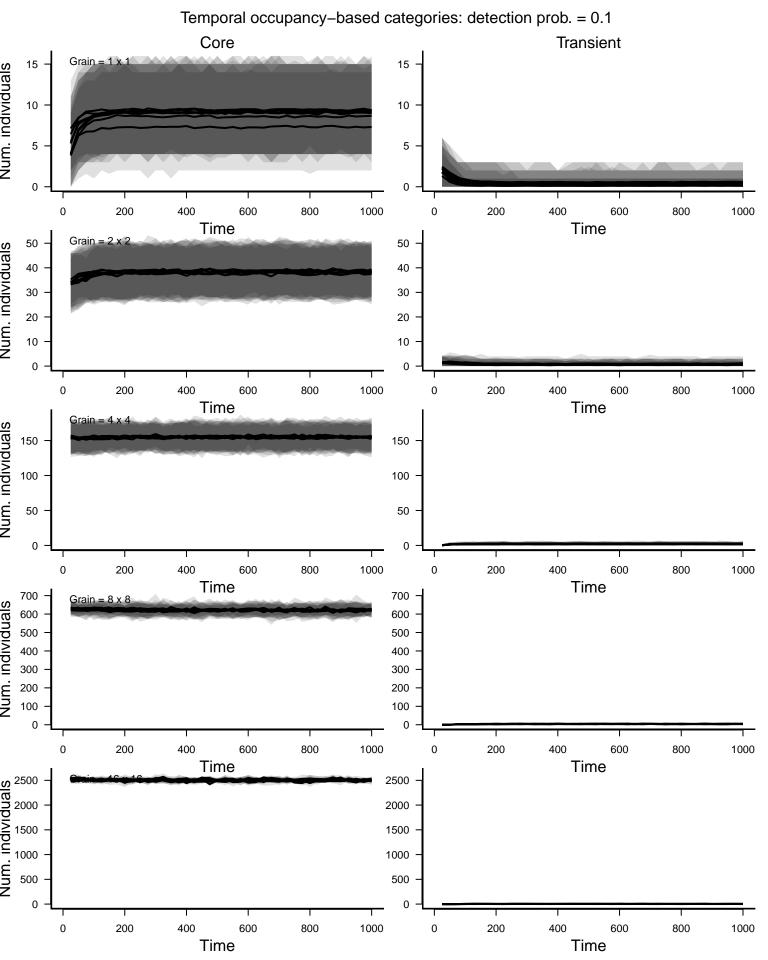


Time

Time

Temporal occupancy-based categories: detection prob. = 0.1 Core **Transient** Grain = 1 x 1 Num. species Time Time Grain =  $2 \times 2$ 12 -12 -Num. species Time Time Grain =  $4 \times 4$ Num. species Time Time 40 -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 Core **Transient** 15 -15 -Grain =  $1 \times 1$ Num. Individuals Time Time 50 -Grain =  $2 \times 2$ Num. Individuals Time Time Grain =  $4 \times 4$ Num. Individuals Time Time Grain = 8 x 8 Num. individuals Time Time Grain = 16 x 16 1500 1000 500 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 20 ain = 8 x 8 Num. species Time Time 20 - $\sin = 16 \times 16$ Num. species 

Time

Time

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

Time

Time