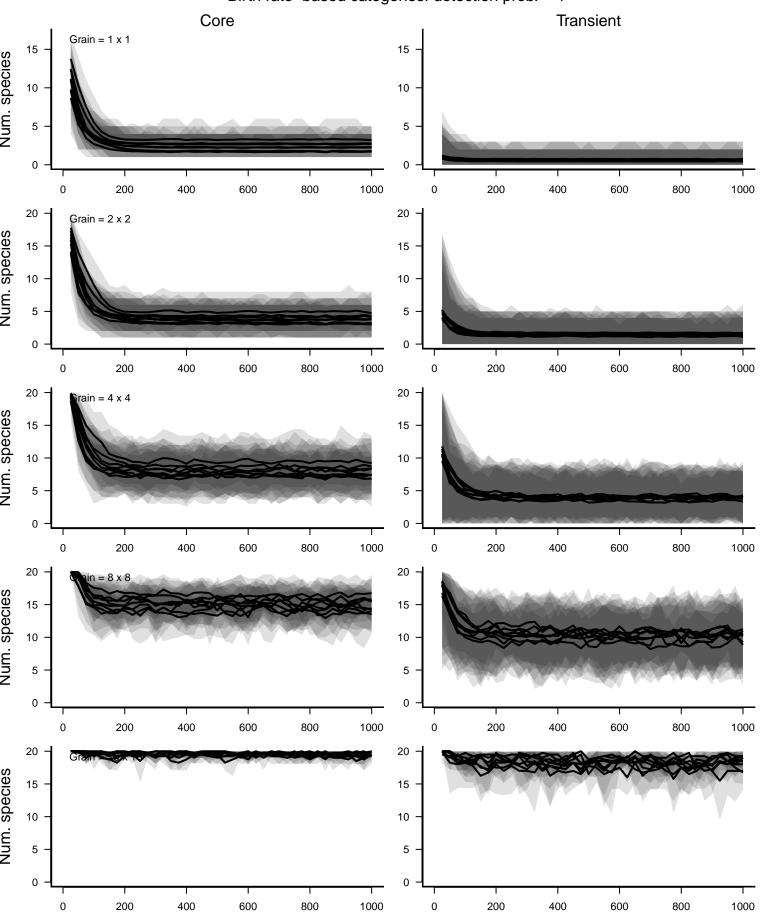
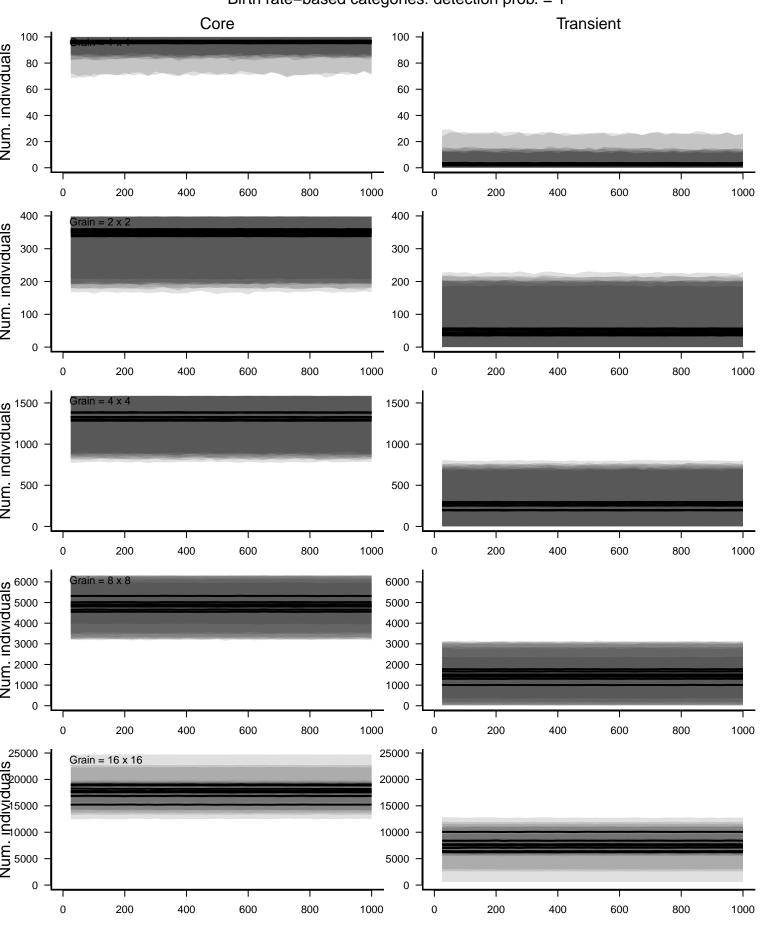
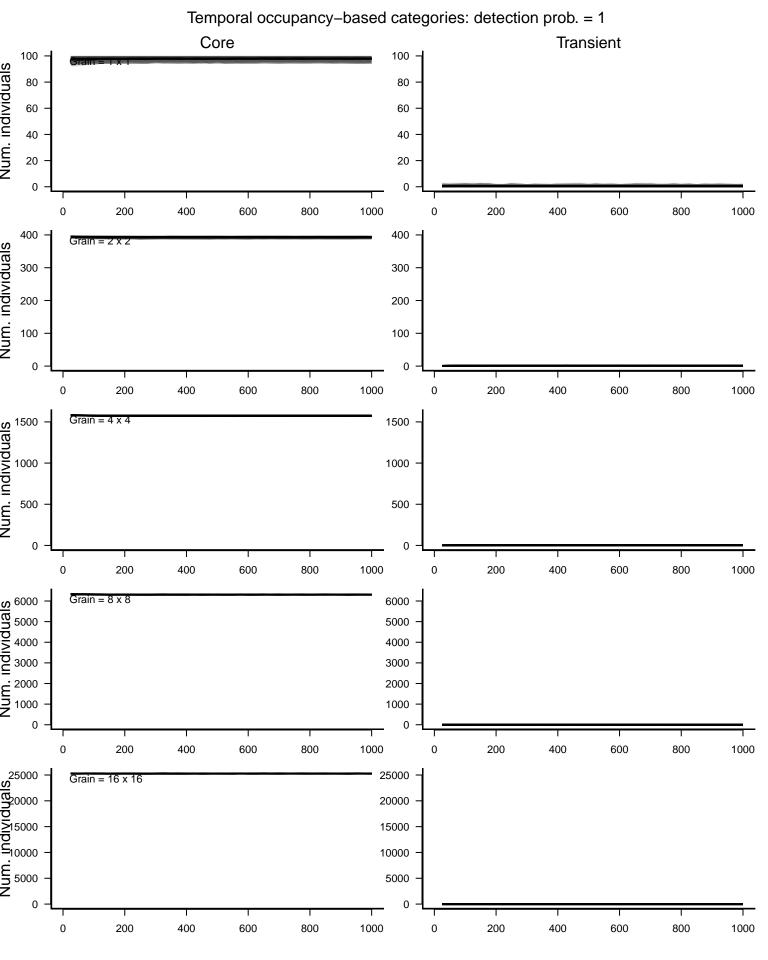
Birth rate-based categories: detection prob. = 1



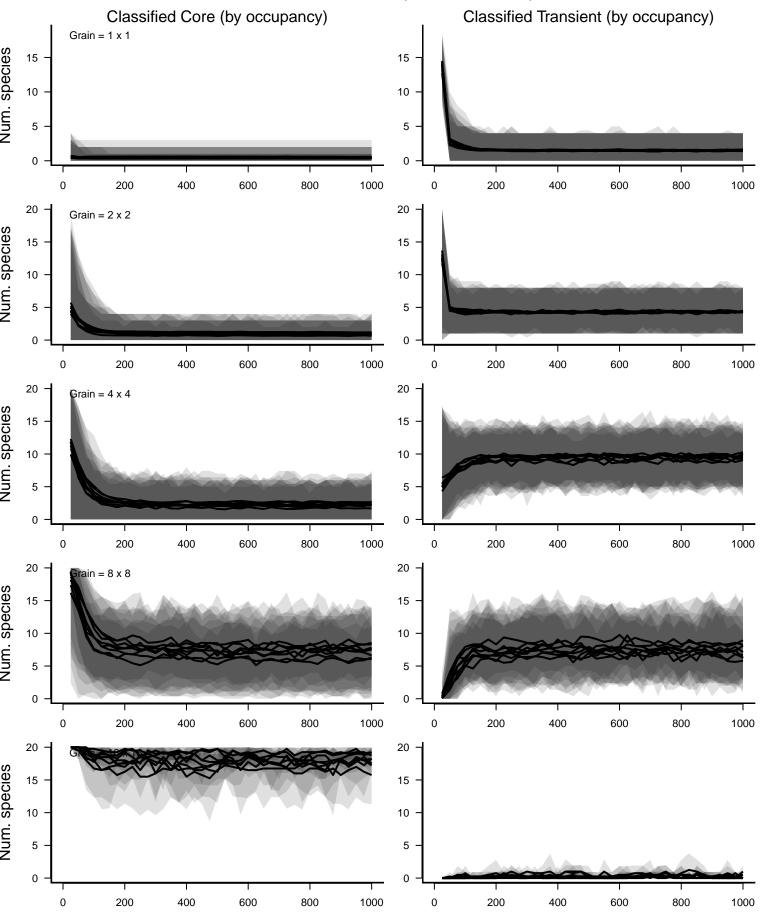
Birth rate-based categories: detection prob. = 1





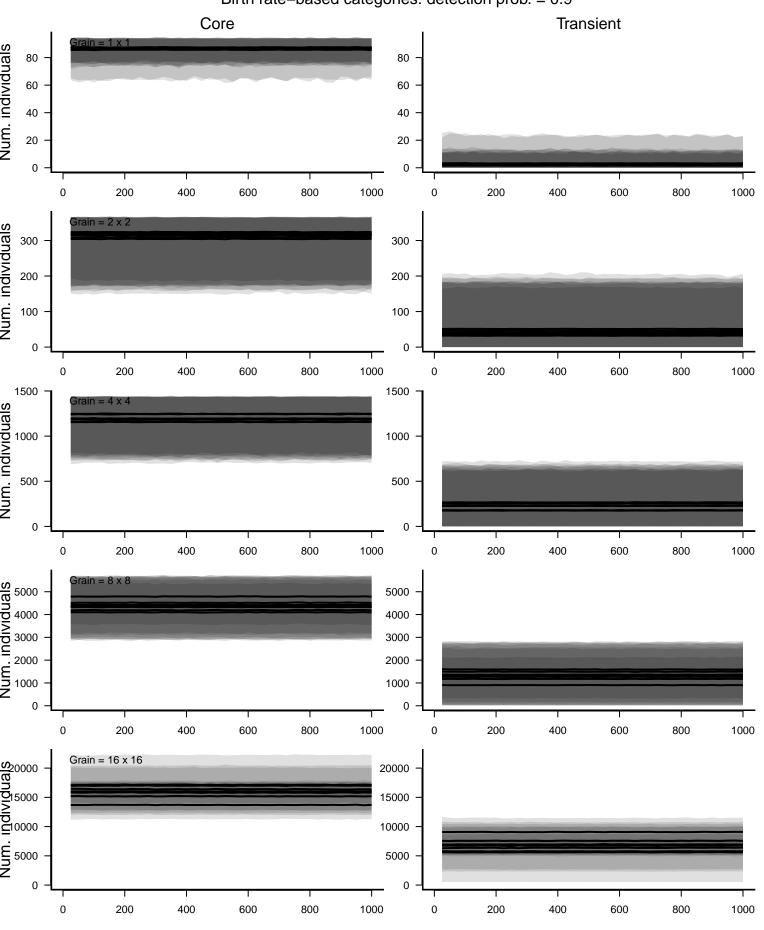
Birth rate-based Core Species: detection prob. = 1 Classified Transient (by occupancy) Classified Core (by occupancy) Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 Num. species $= 8 \times 8$ Num. species 20 -Num. species

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



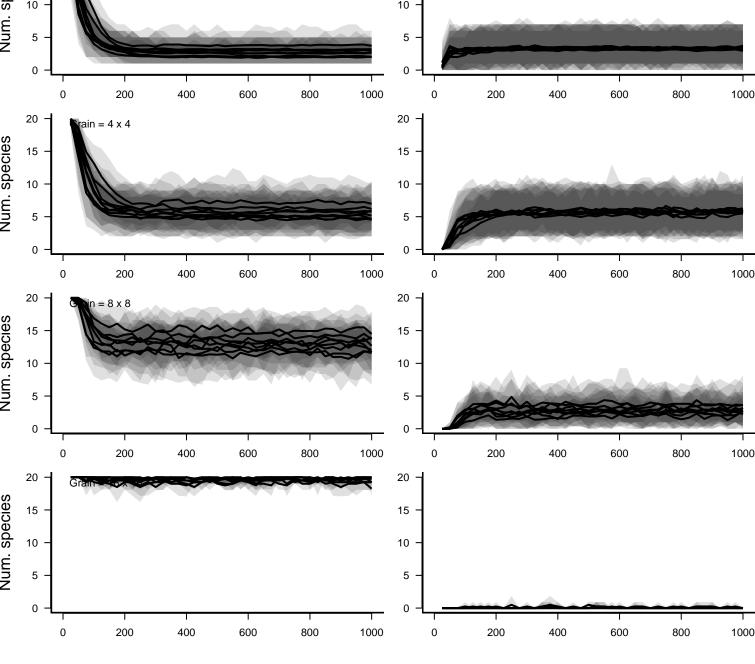
Temporal occupancy-based categories: detection prob. = 0.9 Core Transient Grain = 1×1 Num. species Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 rain = 8 x 8 Num. species 40 -Num. species

Birth rate-based categories: detection prob. = 0.9

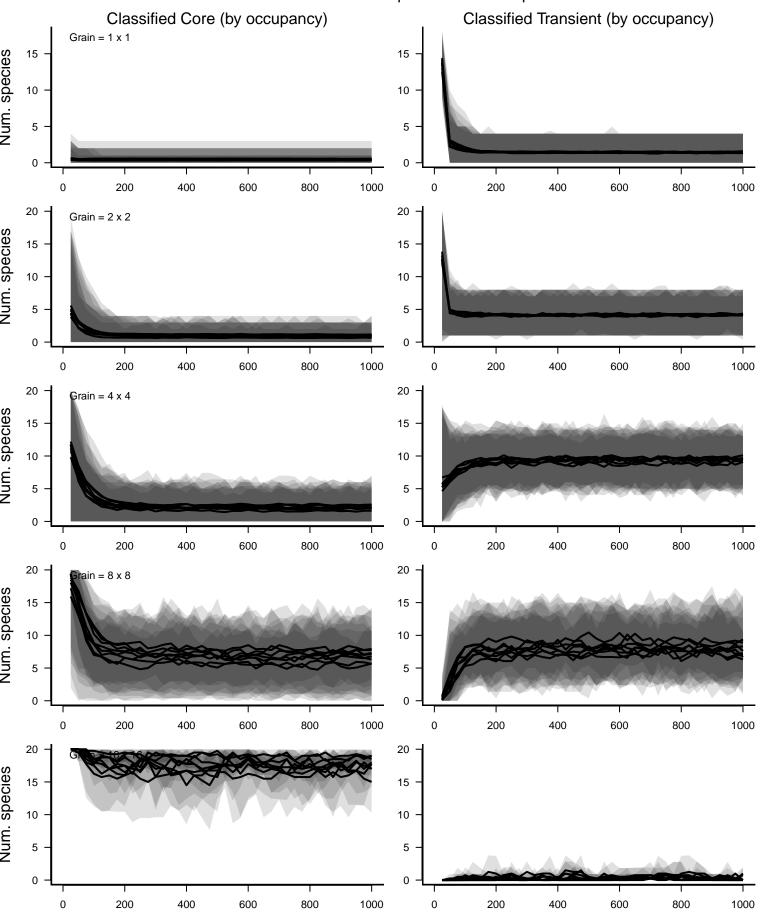


Temporal occupancy-based categories: detection prob. = 0.9 Core Transient Num. Individuals Num. Individuals Num. individuals Grain = 8×8 4000 3000 2000 1000 Grain = 16 x 16 Num. individuals 50000 5000 5000

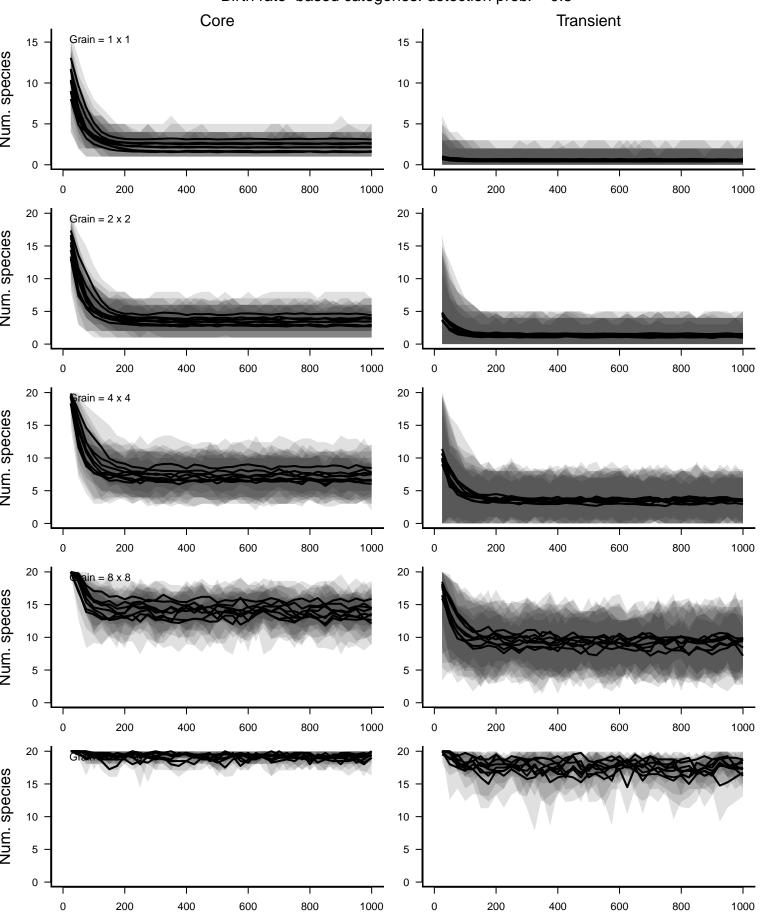
Birth rate-based Core Species: detection prob. = 0.9 Classified Core (by occupancy) Classified Transient (by occupancy) Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species 20 ain = 4 x 4 $1 = 8 \times 8$ 20 -



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

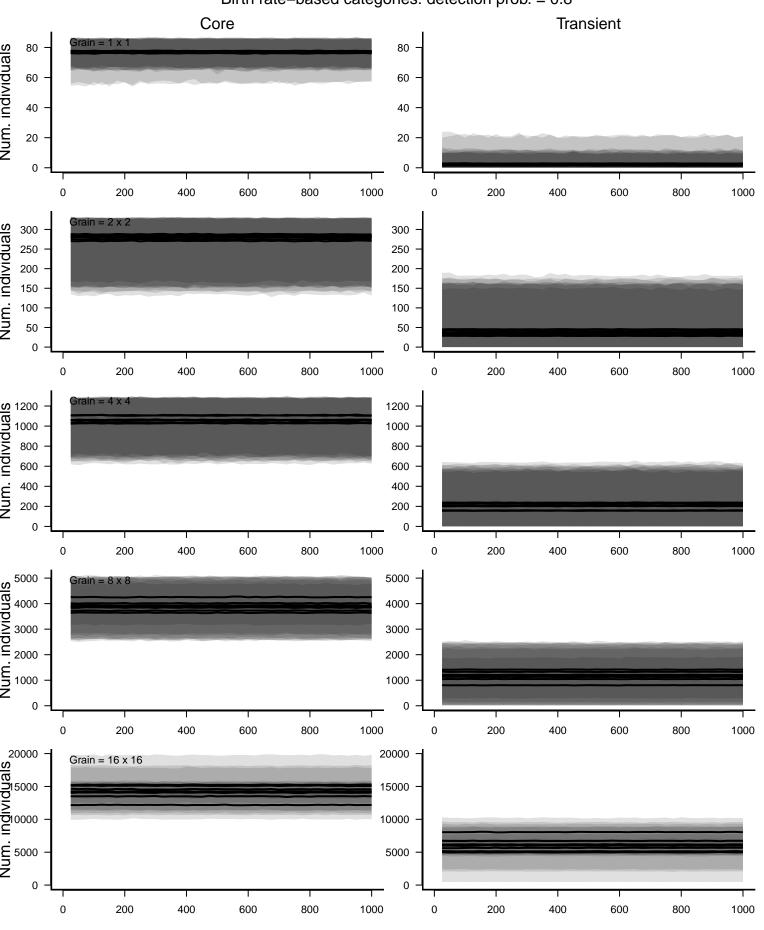


Birth rate-based categories: detection prob. = 0.8



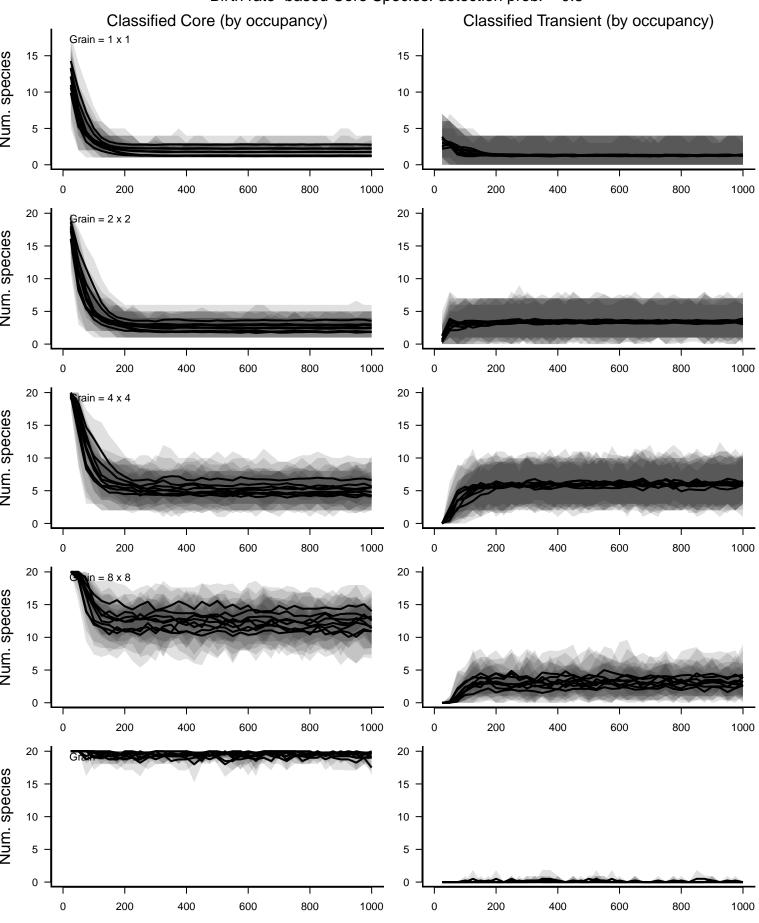
Temporal occupancy–based categories: detection prob. = 0.8 Core Transient Grain = 1×1 Num. species Grain = 2 x 2 Num. species 40 -Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 40 -Num. species

Birth rate-based categories: detection prob. = 0.8

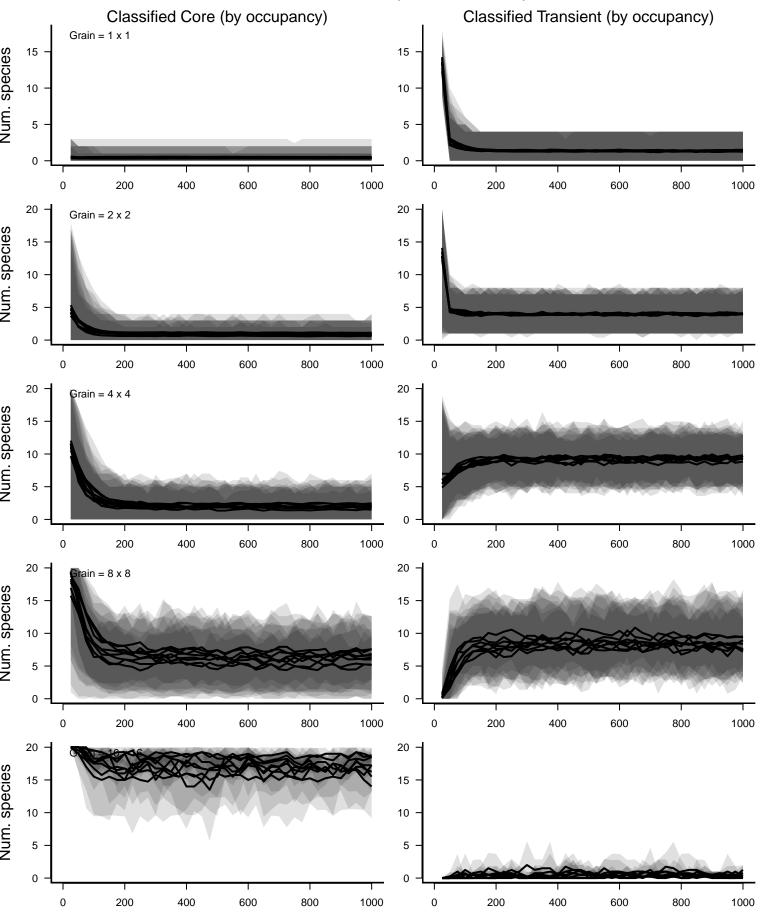


Temporal occupancy-based categories: detection prob. = 0.8 Core **Transient** Num. Individuals Num. individuals Num. Individuals 1000 800 600 400 200 4000 3000 2000 1000 5000 -Grain = 8 x 8 Individuals 15000 5000 20000 -Grain = 16 x 16

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



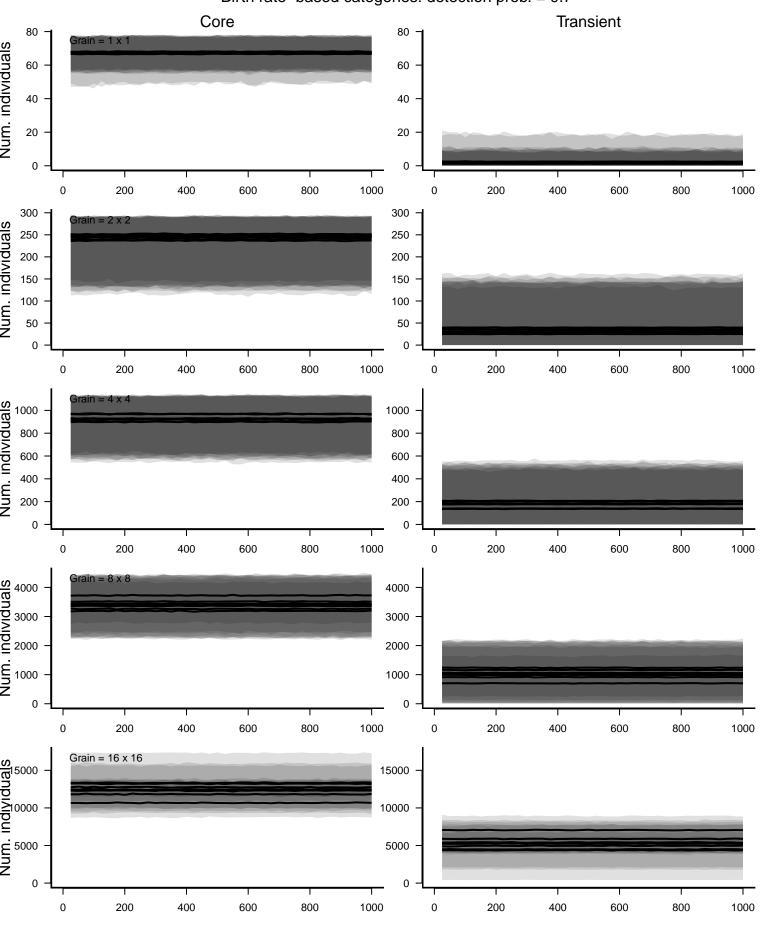
Birth rate-based Transient Species: detection prob. = 0.8



Birth rate-based categories: detection prob. = 0.7 Core Transient Grain = 1×1 Num. species 20 -Grain = 2 x 2 Num. species 20 rain = 4 x 4 Num. species 20 in = 8 x 8 Num. species 20 -Num. species

Temporal occupancy-based categories: detection prob. = 0.7 Core Transient 15 -15 -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 40 -Num. species

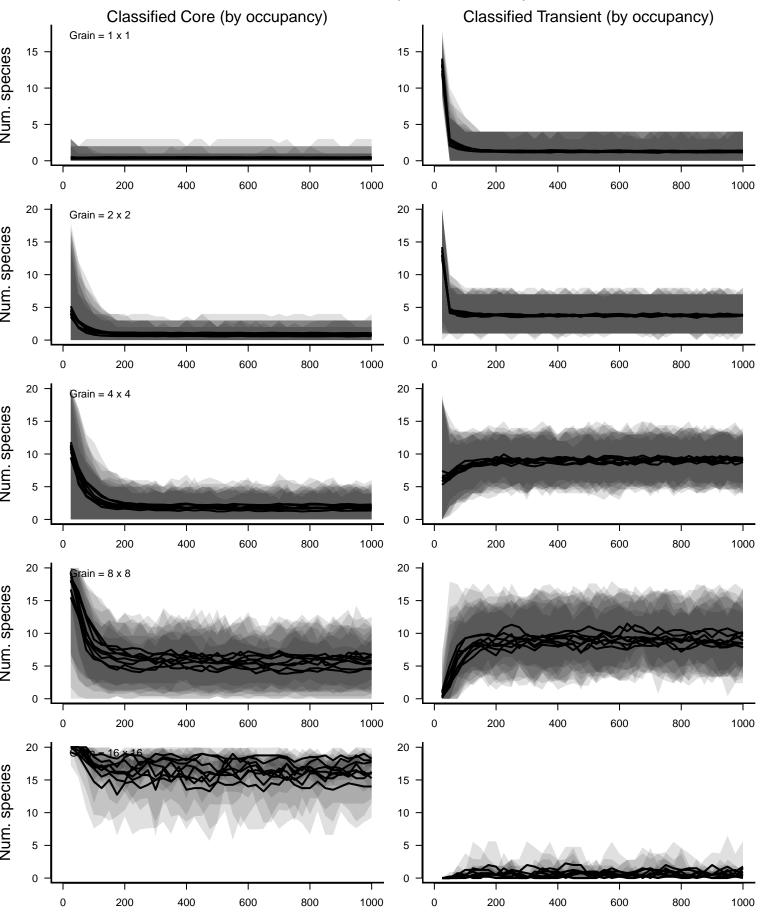
Birth rate-based categories: detection prob. = 0.7



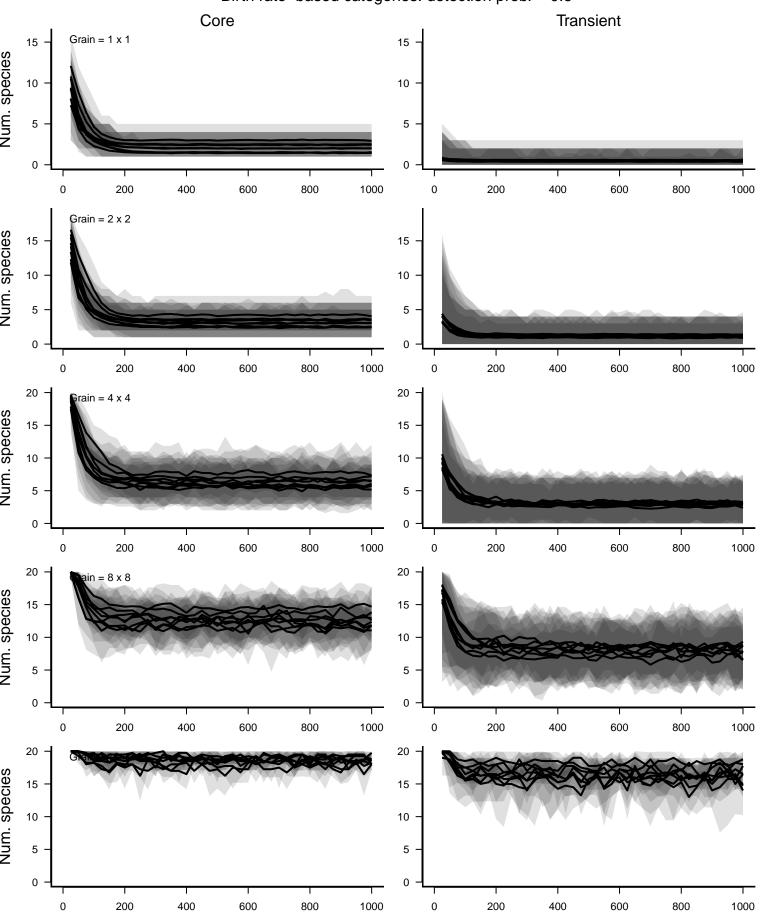
Temporal occupancy-based categories: detection prob. = 0.7 Core Transient Num. Individuals Num. Individuals Num. Individuals 4000 3000 2000 1000 1000 Num. Individuals 10000 5000

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 rain = 4 x 4 Num. species in = 8 x 8 Num. species 20 -Num. species

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

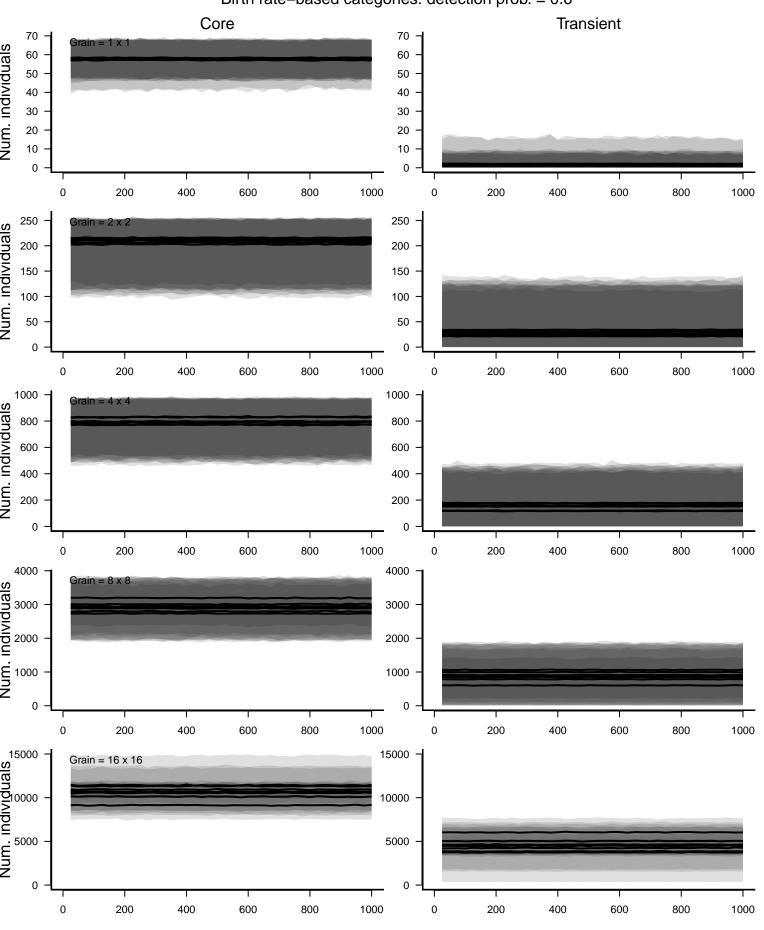


Birth rate-based categories: detection prob. = 0.6



Temporal occupancy-based categories: detection prob. = 0.6 Transient Core 15 -15 -Grain = 1 x 1 Num. species 30 -Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 -Num. species

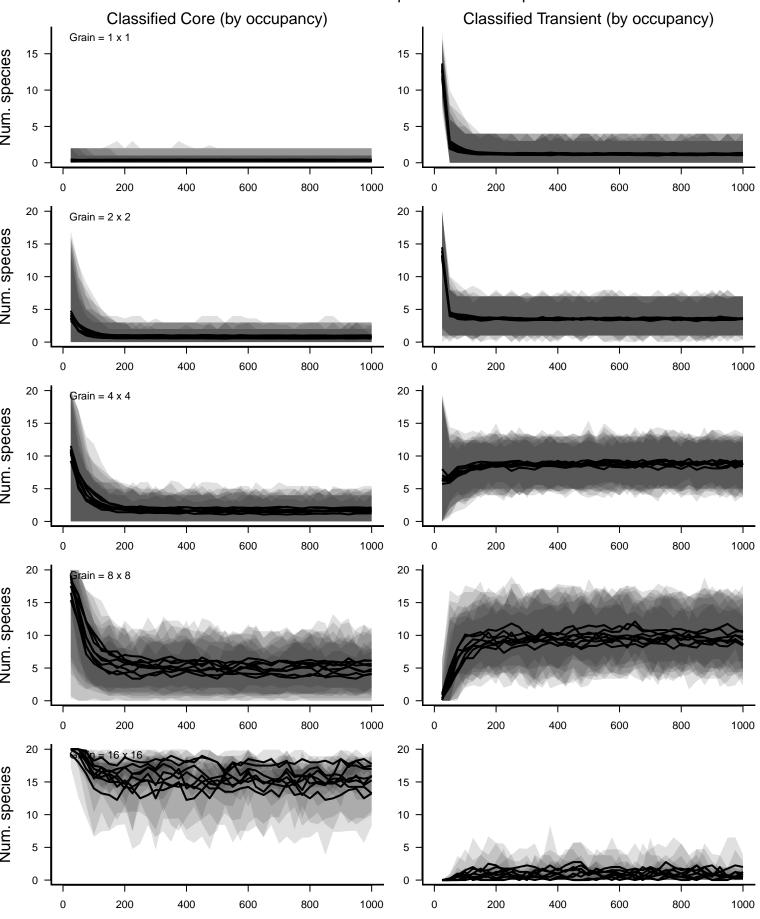
Birth rate-based categories: detection prob. = 0.6



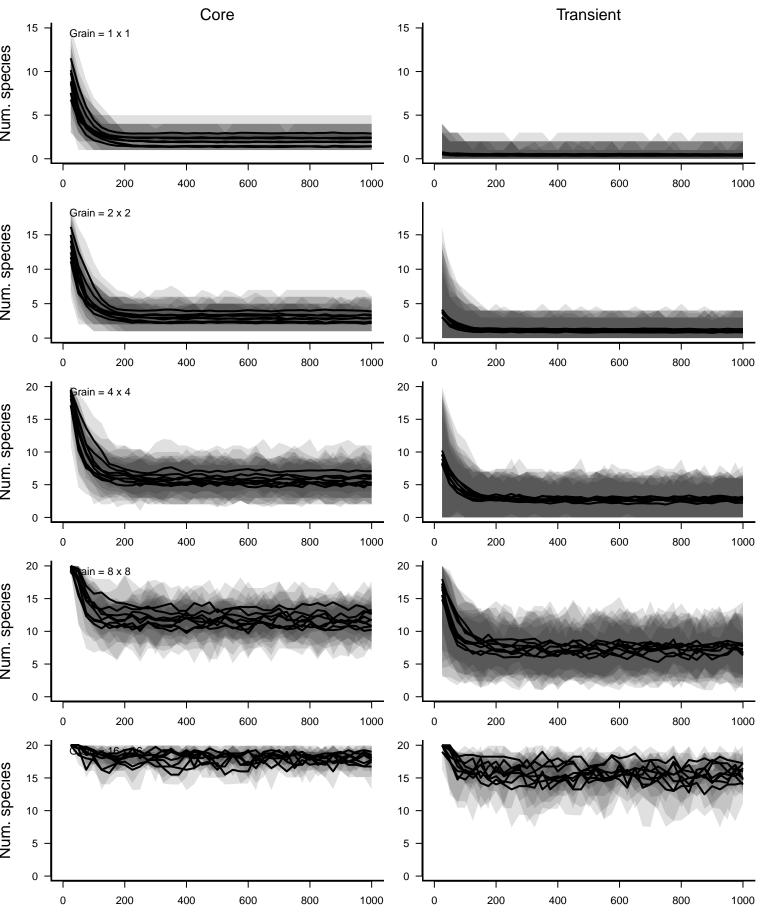
Temporal occupancy-based categories: detection prob. = 0.6 Core Transient Num. Individuals Num. Individuals 1000 -Num. Individuals 2000 undividuals 3000 2000 1000 Num. individuals. 5000

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 rain = 4 x 4 Num. species 20 $in = 8 \times 8$ Num. species 20 -Num. species

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



Birth rate-based categories: detection prob. = 0.5

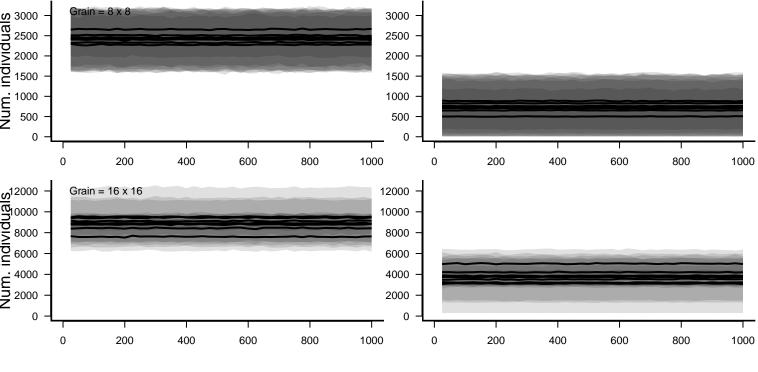


Temporal occupancy-based categories: detection prob. = 0.5 Transient Core 14 -Grain = 1 x 1 Num. species Grain = 2 x 2 Num. species Grain = 4×4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 -= 16 x 16 Num. species

Birth rate-based categories: detection prob. = 0.5 **Transient** Core 60 - $Grain = 1 \times 1$

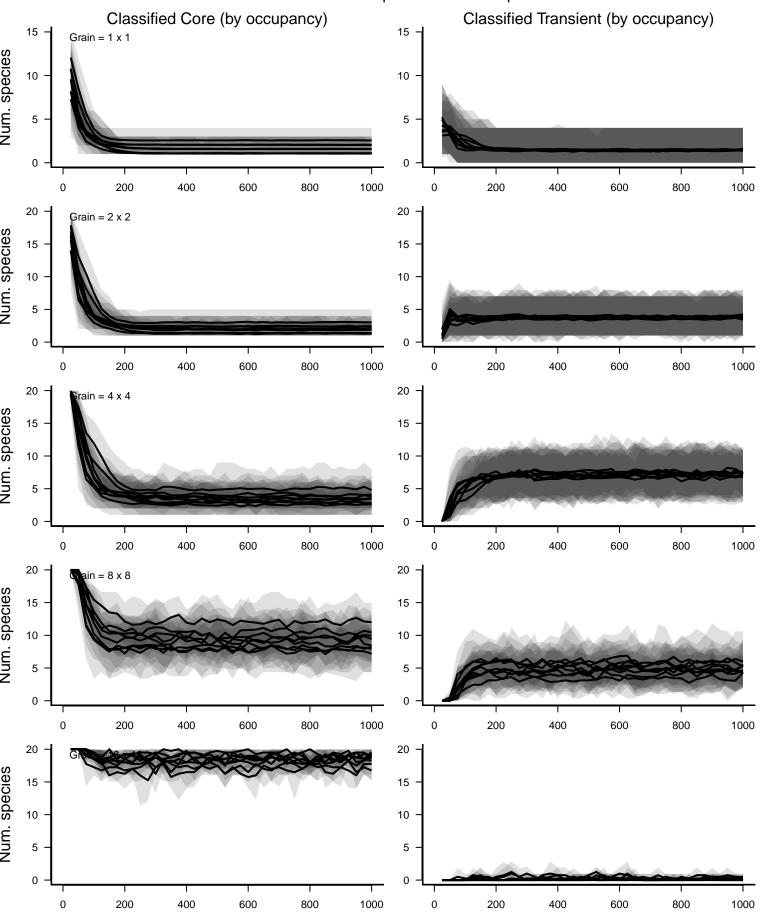
Num. Individuals

Num. Individuals

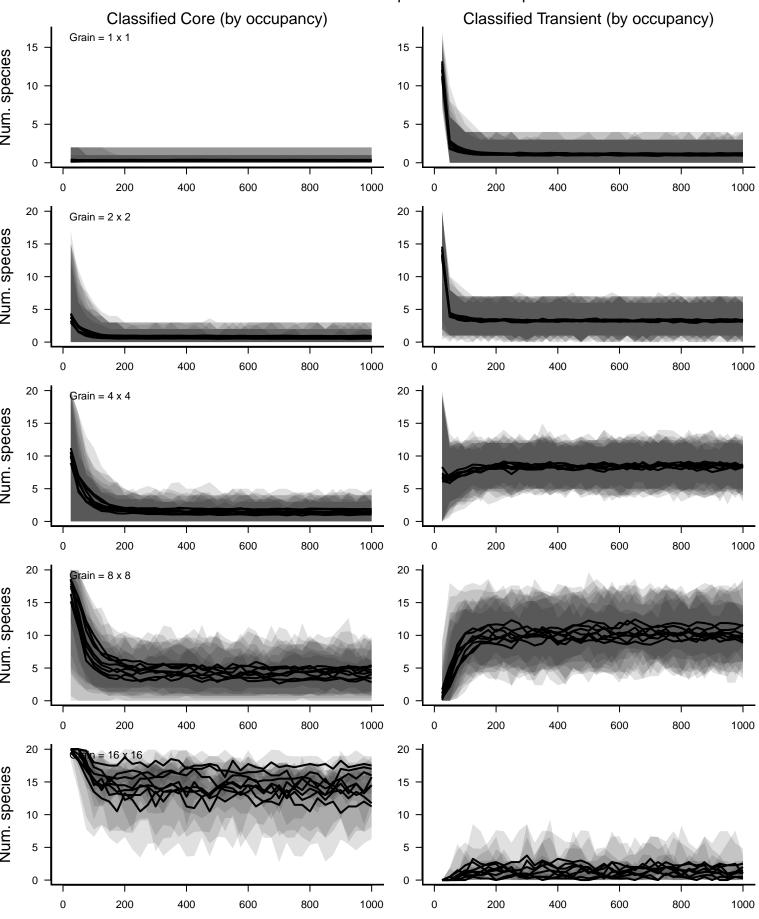


Temporal occupancy-based categories: detection prob. = 0.5 Core Transient 60 -Num. Individuals Num. Individuals Num. Individuals 2500 2000 1500 1000 500 8000 and 10000 and 100000 and 10000 and 100000 and 10000 and 10000 and 10000 and 10000 and 10000 and 10000

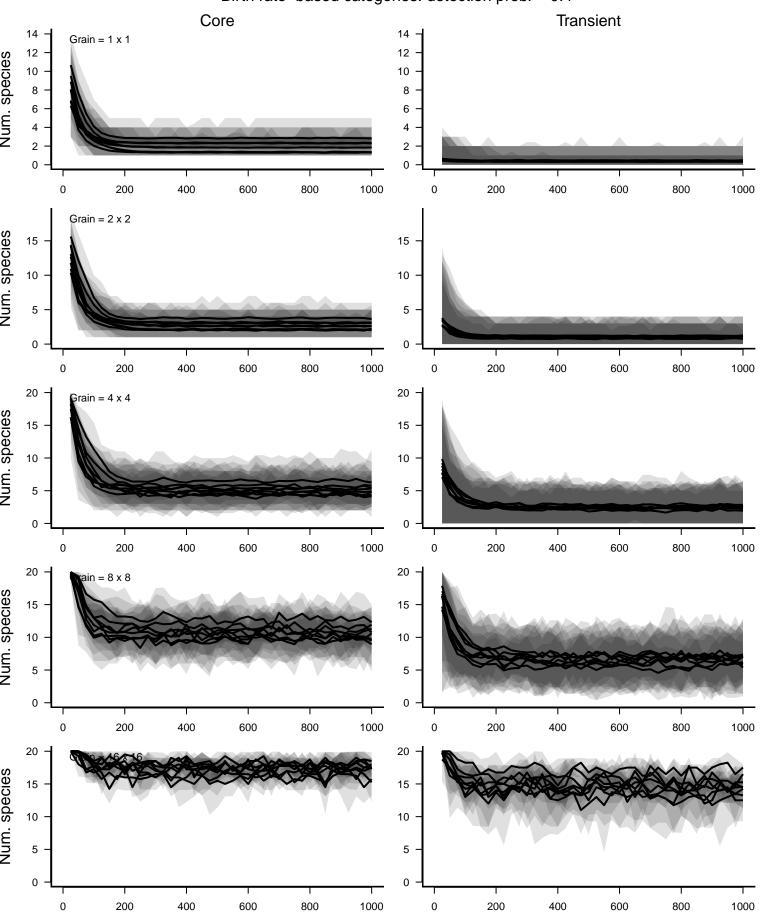
Birth rate-based Core Species: detection prob. = 0.5



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

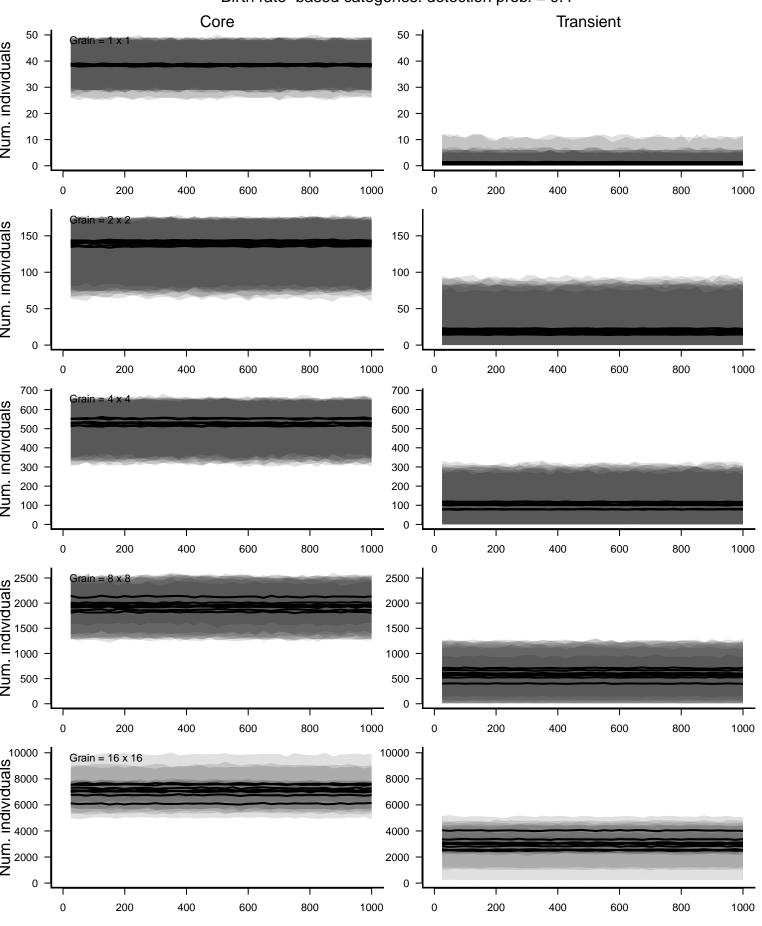


Birth rate-based categories: detection prob. = 0.4



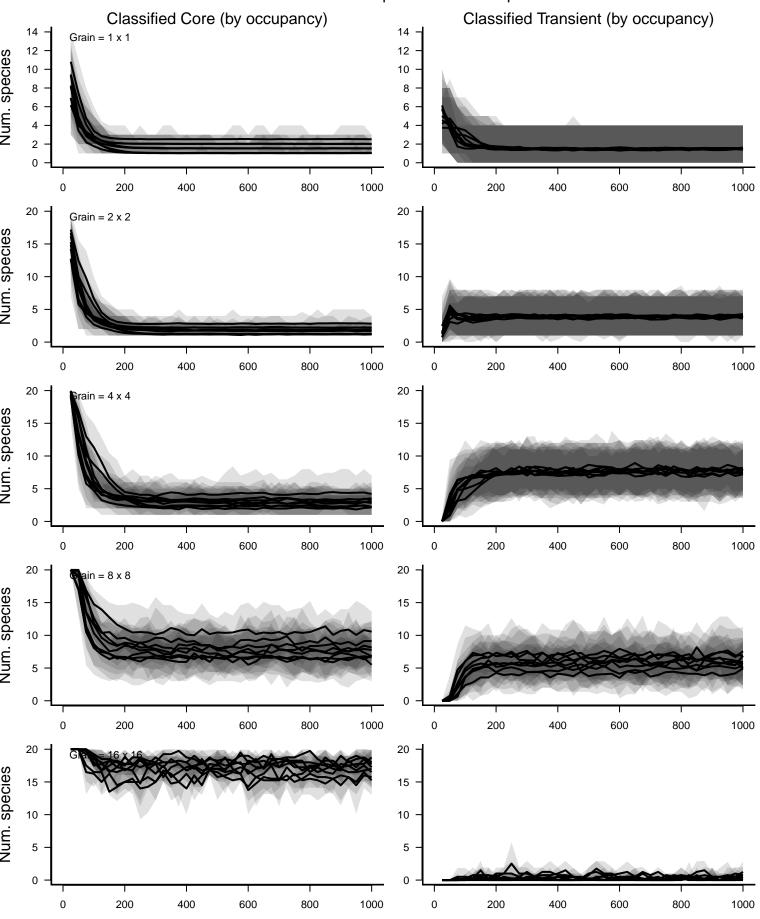
Temporal occupancy-based categories: detection prob. = 0.4 Transient Core Grain = 1×1 Num. species Grain = 2 x 2 Num. species Grain = 4×4 Num. species 40 -Grain = 8 x 8 Num. species 10 -40 n = 16 x 16 Num. species

Birth rate-based categories: detection prob. = 0.4

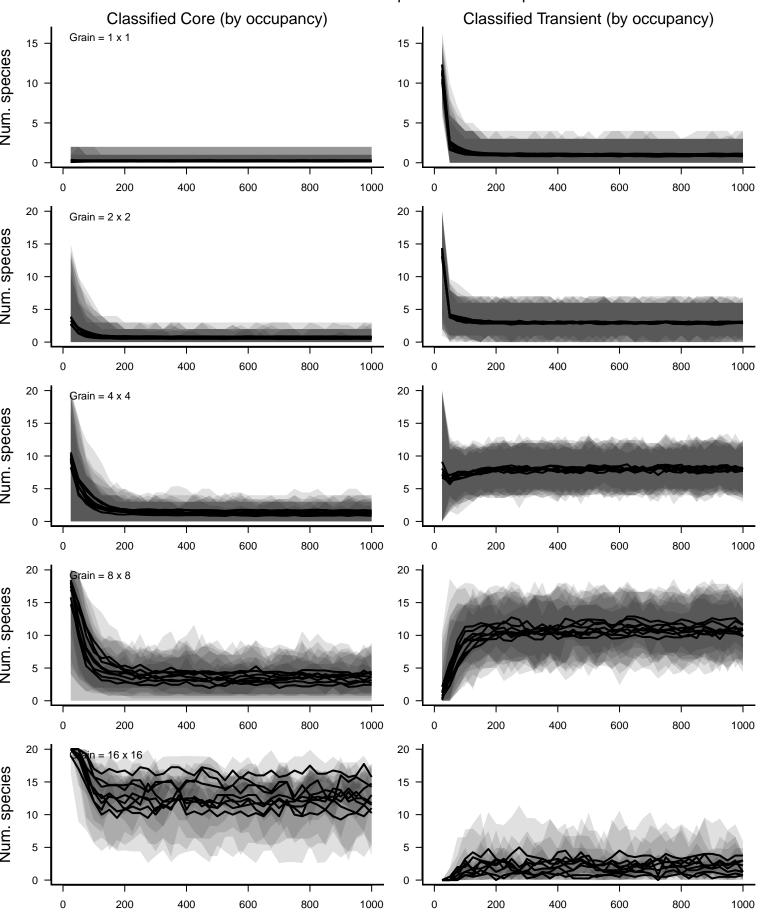


Temporal occupancy-based categories: detection prob. = 0.4 Core **Transient** 50 - $Grain = 1 \times 1$ Num. Individuals Num. Individuals 2000 1500 1000 500 Num. Individuals 8000 6000 4000 2000

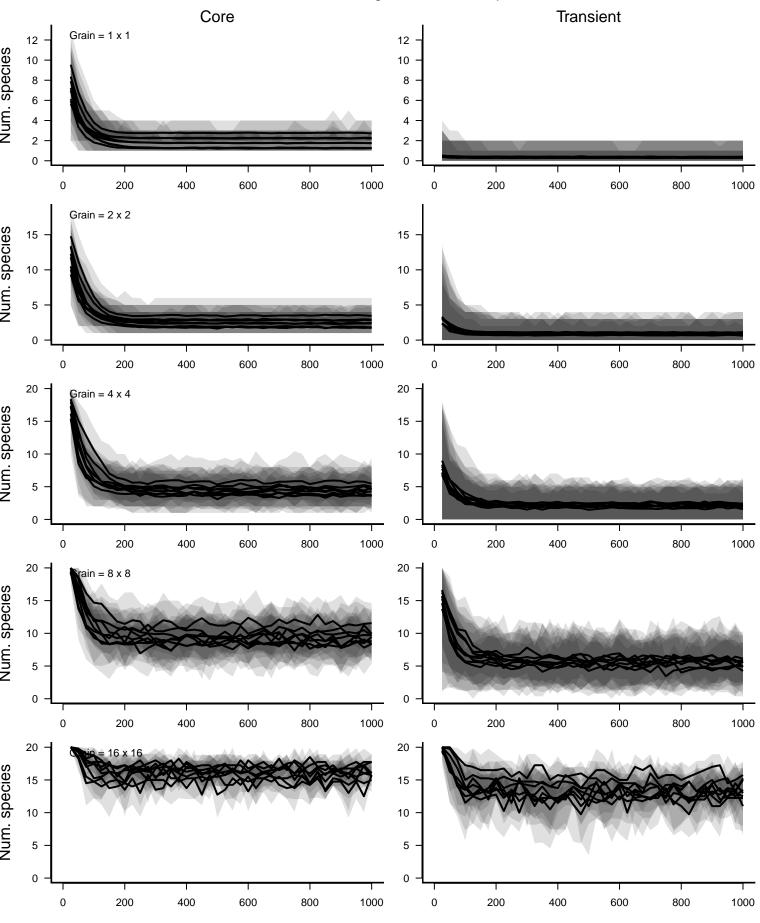
Birth rate-based Core Species: detection prob. = 0.4



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 Grain = 1×1 Num. species 25 -Grain = 2 x 2 Num. species Grain = 4 x 4 Num. species 40 -Grain = 8 x 8 Num. species 40 in = 16 x 16 Num. species

Birth rate-based categories: detection prob. = 0.3 **Transient** Core 140 -500 -2000 -

 $Grain = 1 \times 1$

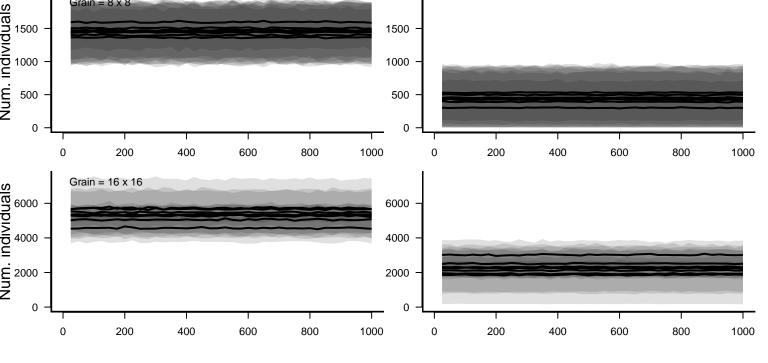
 $Grain = 8 \times 8$

Num. Individuals

Num. Individuals

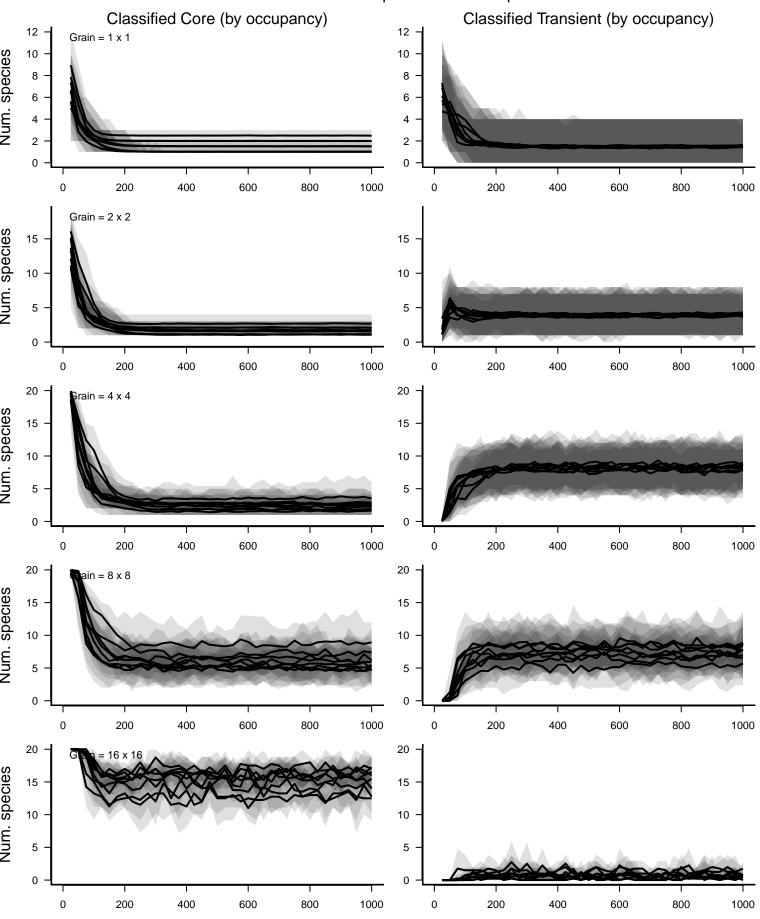
140 -

Num. Individuals

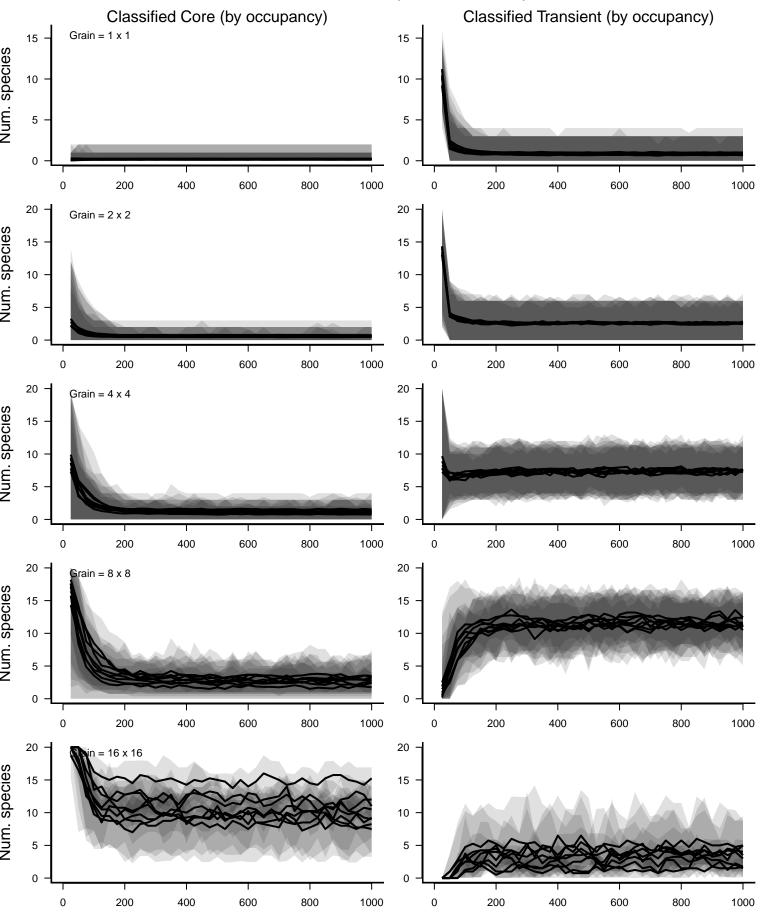


Temporal occupancy-based categories: detection prob. = 0.3 Core Transient Grain = 1×1 Num. Individuals 140 -Num. individuals Num. Individuals 2000 -Num. individuals 1500 1000 500 Sign 6000 6000 4000 2000

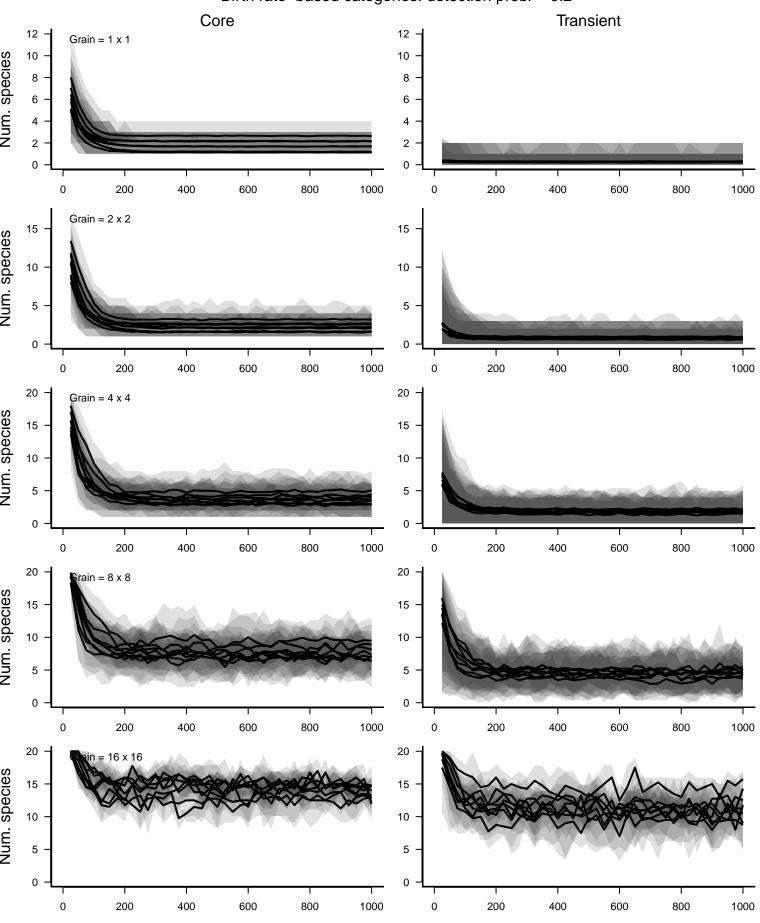
Birth rate-based Core Species: detection prob. = 0.3



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

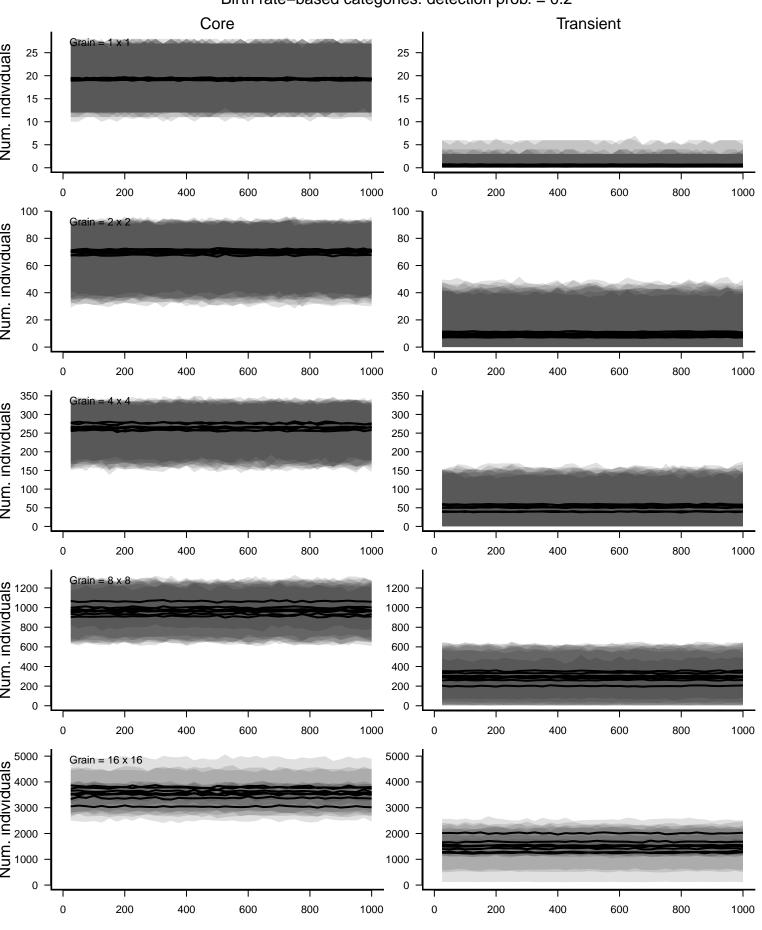


Birth rate-based categories: detection prob. = 0.2



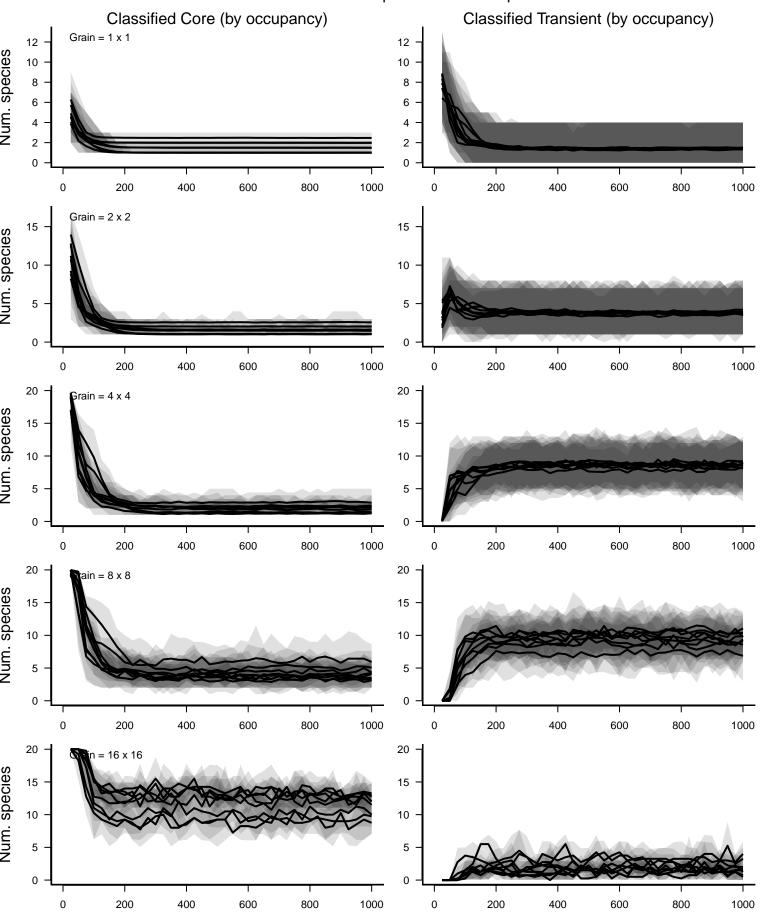
Temporal occupancy-based categories: detection prob. = 0.2 Transient Core 8 -Grain = 1 x 1 Num. species 20 -Grain = 2 x 2 Num. species Grain = 4×4 Num. species 40 -**G**rain = 8 x 8 Num. species 40 ain = 16 x 16 Num. species

Birth rate-based categories: detection prob. = 0.2

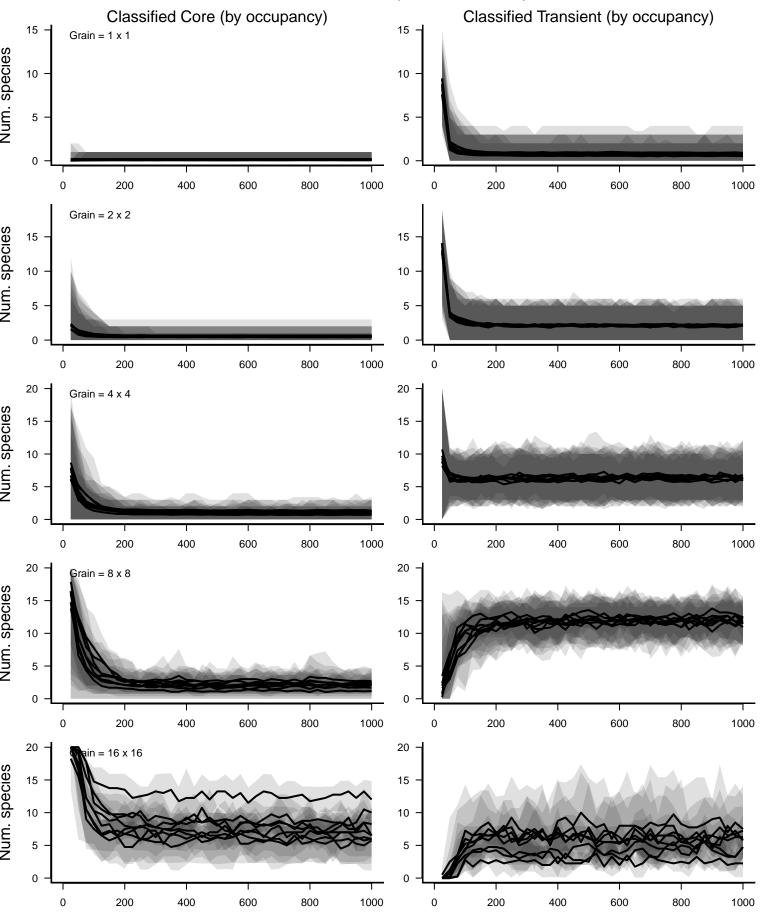


Temporal occupancy-based categories: detection prob. = 0.2 Transient Core $Grain = 1 \times 1$ Num. Individuals Grain = 2×2 Num. Individuals Num. individuals 1200 1000 800 600 400 200 5000 4000 3000 2000 1000

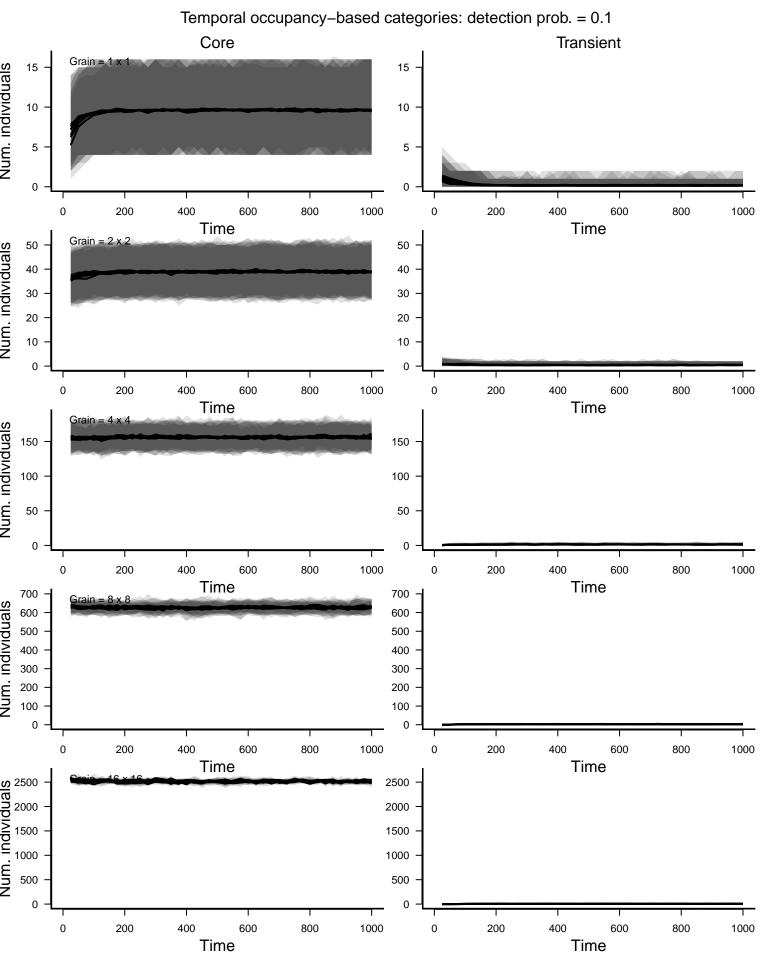
Birth rate-based Core Species: detection prob. = 0.2



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



Birth rate-based categories: detection prob. = 0.1 Core **Transient** $Grain = 1 \times 1$ Num. Individuals Time Time $Grain = 2 \times 2$ Num. Individuals Time Time $Grain = 4 \times 4$ Num. Individuals Time Time Grain = 8×8 Num. Individuals Time Time 2000 1500 1000 500 Grain = 16 x 16 Time Time



Birth rate-based Core Species: detection prob. = 0.1 Classified Core (by occupancy) Classified Transient (by occupancy) 15 -15 -Grain = 1×1 Num. species Time Time 14 -Grain = 2×2 Num. species Time Time 20 -Grain = 4 x 4 Num. species Time Time 20 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

