

Supplementary material part 6

Information use during movement regulates how fragmentation and loss of habitat affect body size

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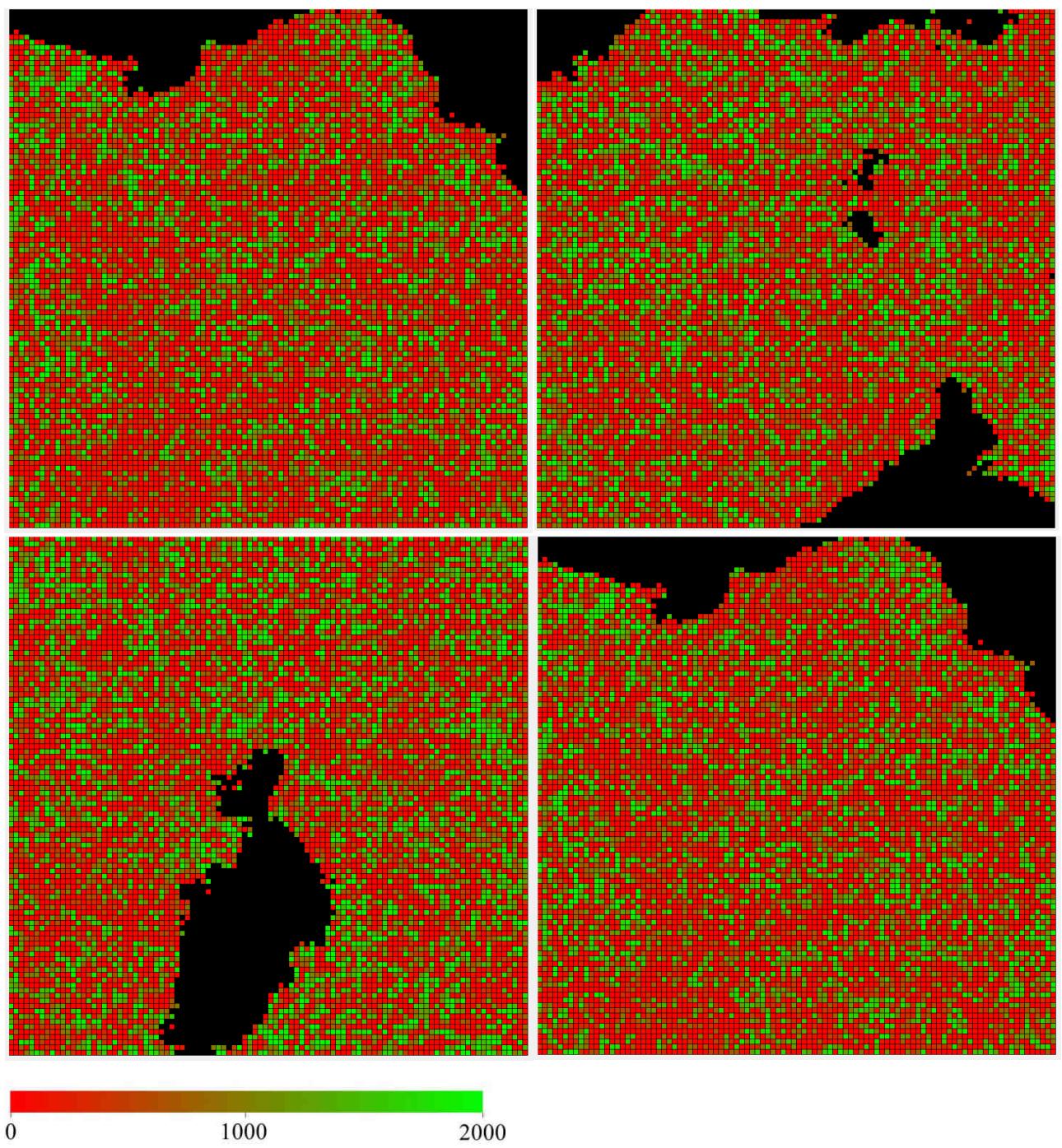


Figure S6.1: Examples of resource distributions (in Joule) when movement is informed with $P=0.9$ and $H=1$ (black: unsuitable habitat).

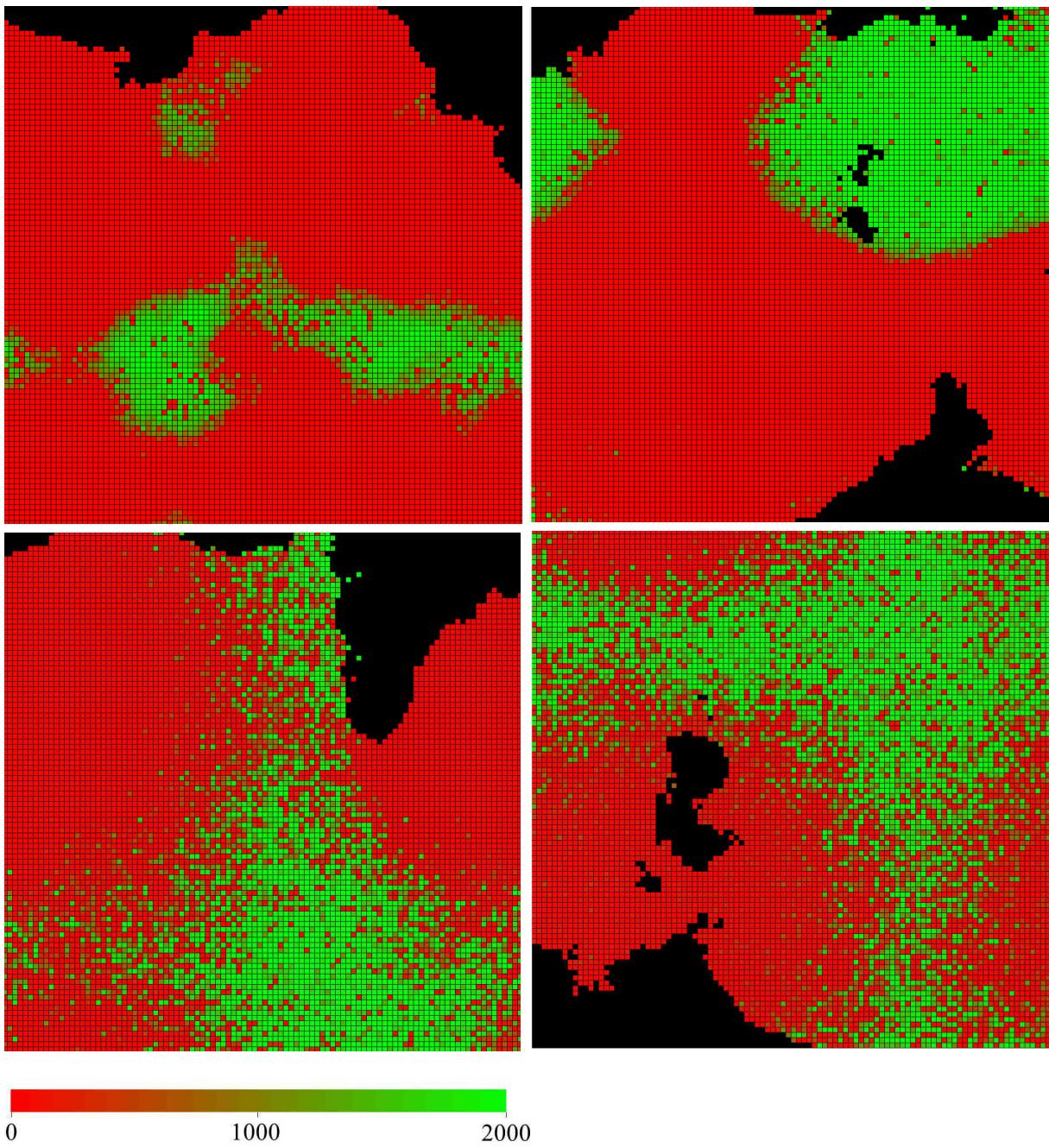


Figure S6.2: Examples of landscapes with heterogeneous distributions of resources (in Joule) (black: unsuitable area). Movement is partially informed or uninformed with $P=0.90$ and $H=1$.

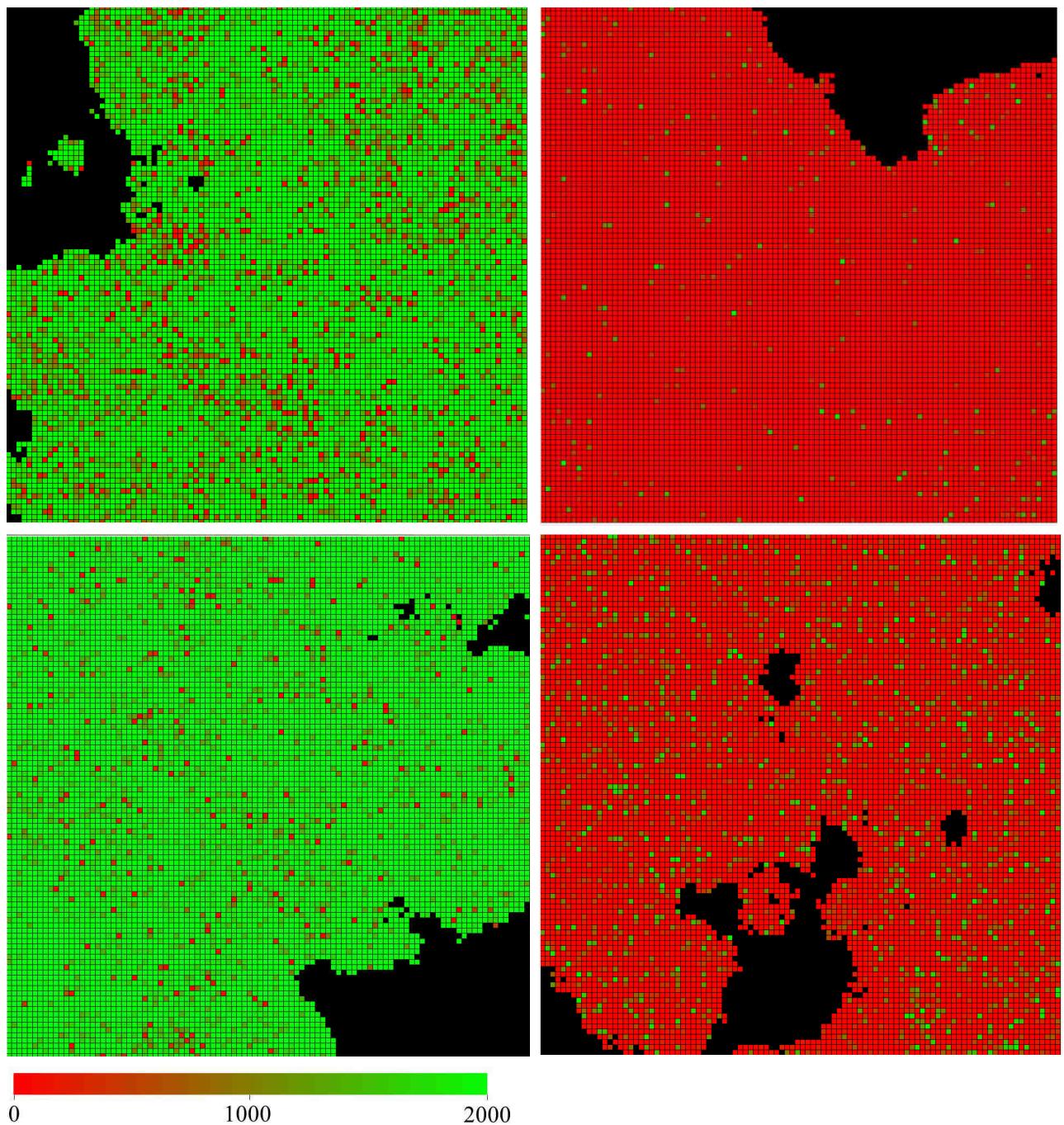


Figure S6.3: Examples of landscapes with homogeneous distribution of resources (in Joule) (black: unsuitable area). Movement is partially informed or uninformed with $P=0.90$ and $H=1$.

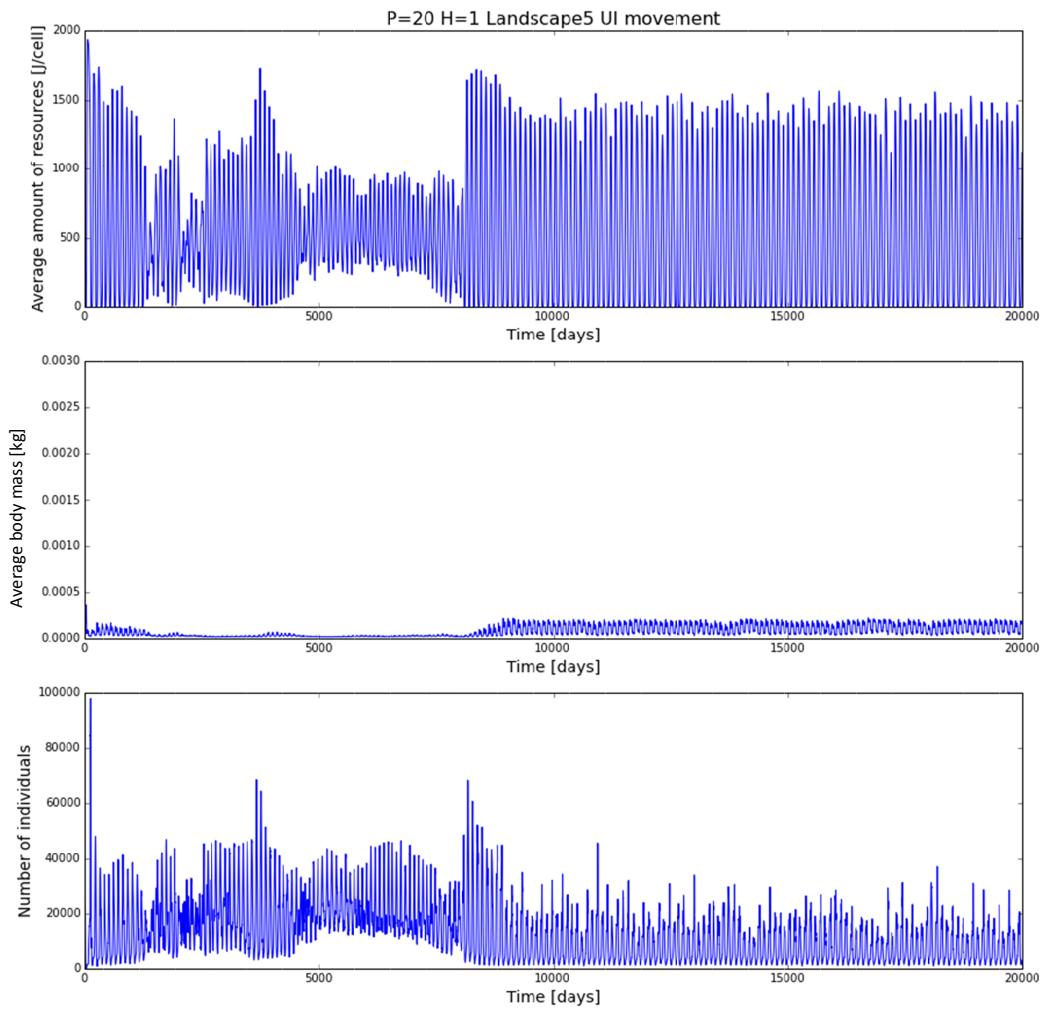


Figure S6.4: Detailed time series of number of individuals, average body weight and average amount of resources. Within this simulation movement was uninformed, P equaled 0.20 and H 1.

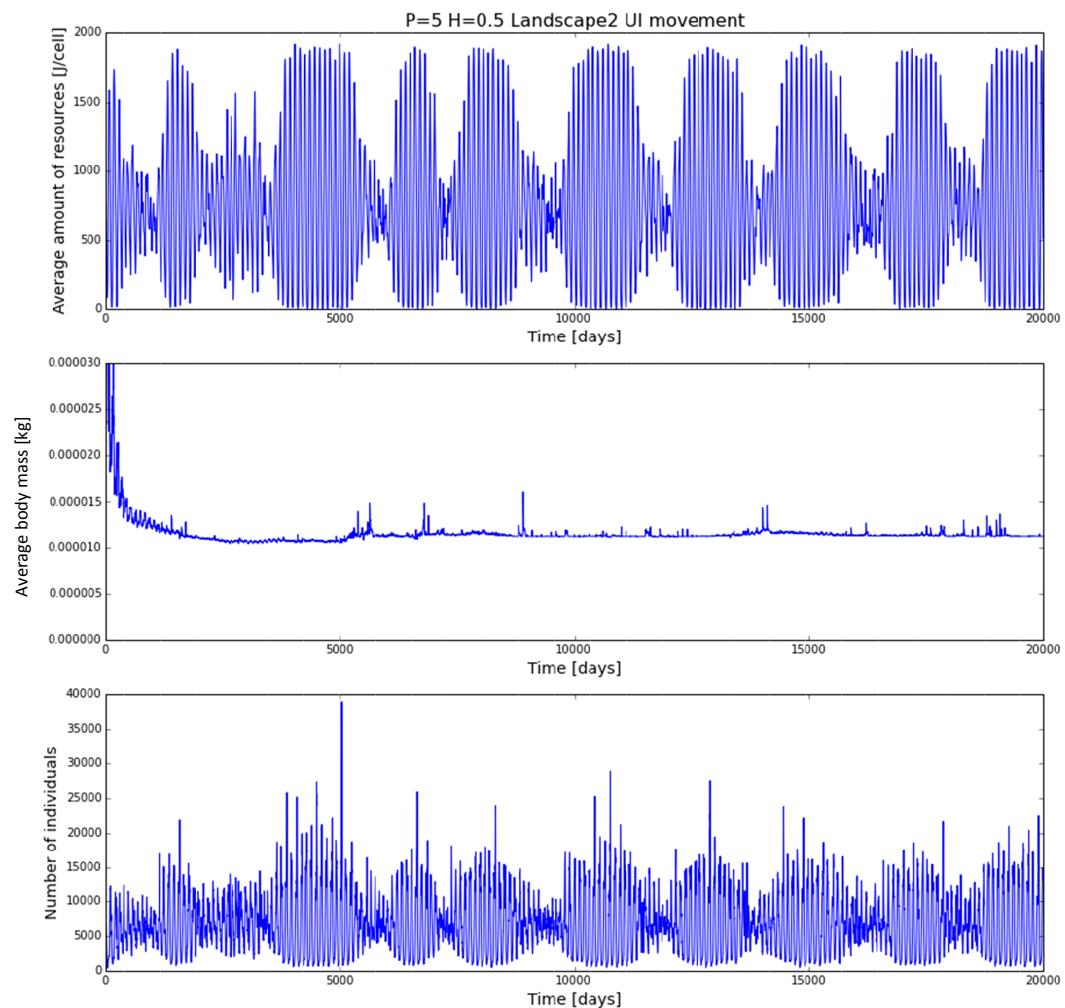


Figure S6.5: Detailed time series of number of individuals, average body weight and average amount of resources. Within this simulation movement was uninformed, P equaled 0.05 and H 0.5.

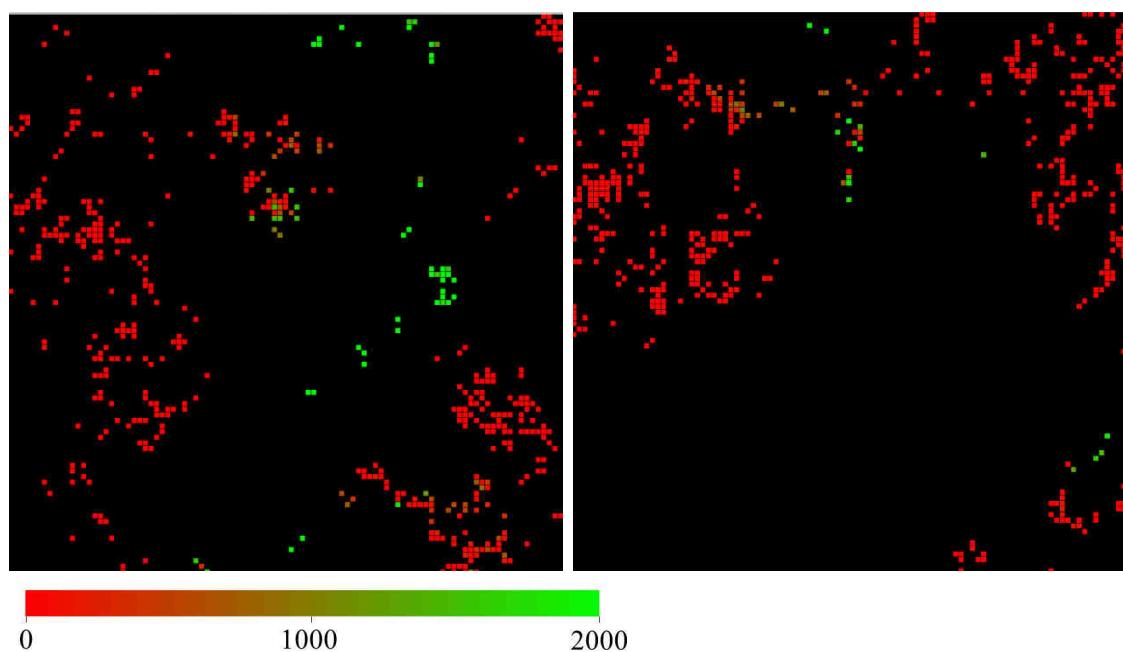


Figure S6.6: Examples of landscapes with heterogeneous distributions of resources (in Joule) when movement is informed (black: unsuitable area).

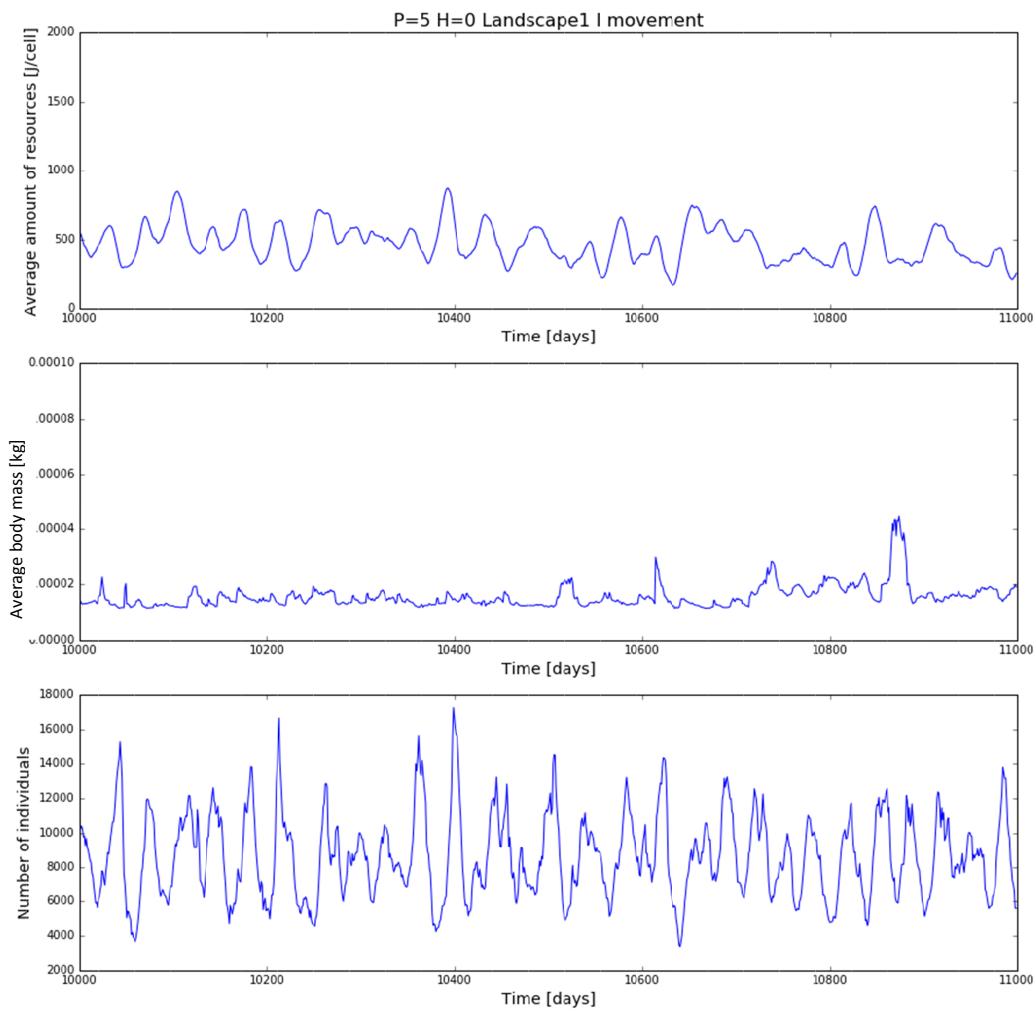


Figure S6.7: Detailed time series of number of individuals, average body weight and average amount of resources. Within this simulation movement was informed, P equaled 0.05 and H 0.

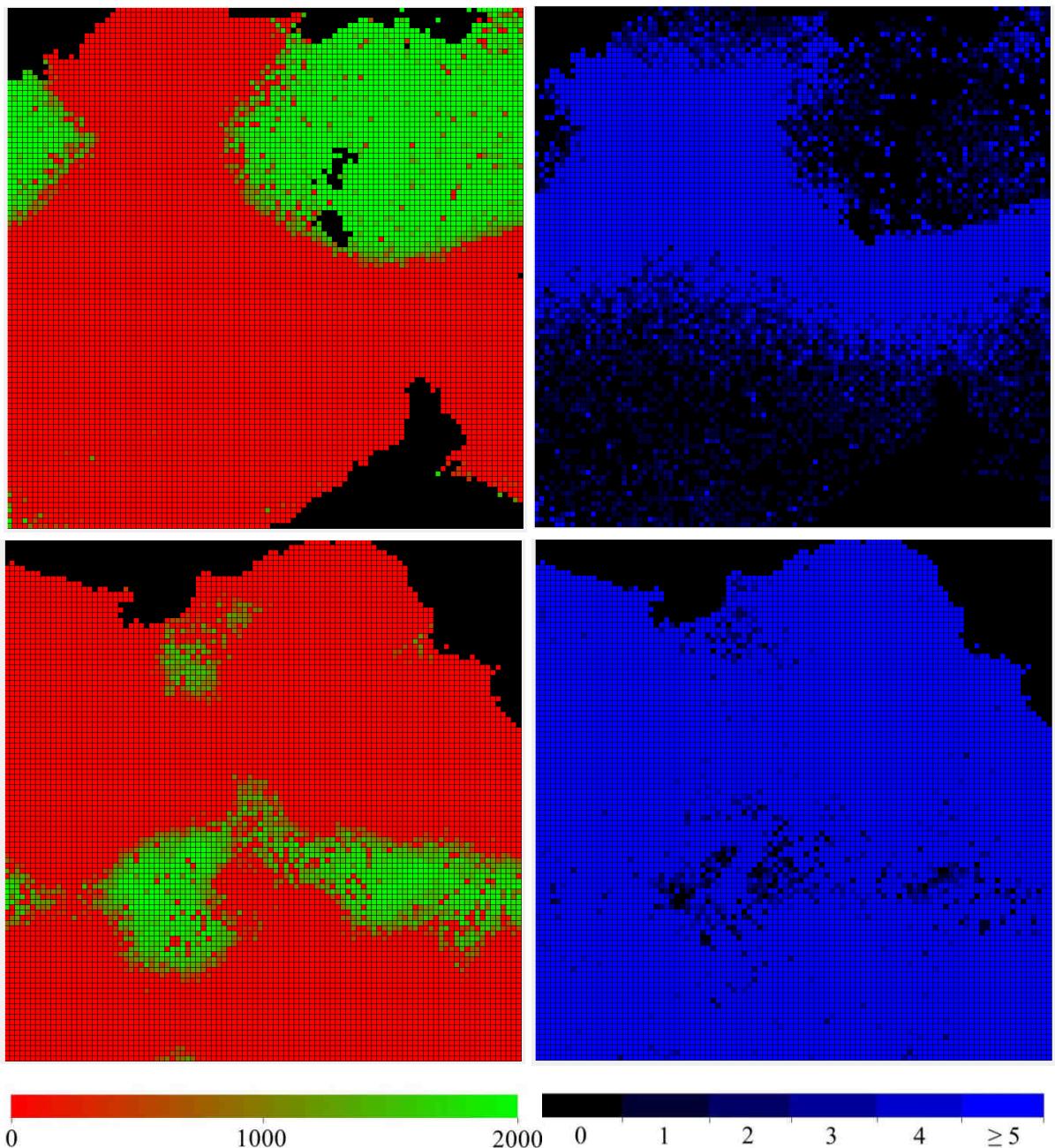


Figure S6.8: Spatial distribution of consumers (number of individuals) and resources (in Joule) within two simulation with uninformed movement (two lower panels) and partially informed movement (two upper panels), $P=0.90$ and $H=1$. On the left, the distribution of resources is displayed (black: unsuitable habitat) and on the right the distribution of consumers (black: no consumers present).

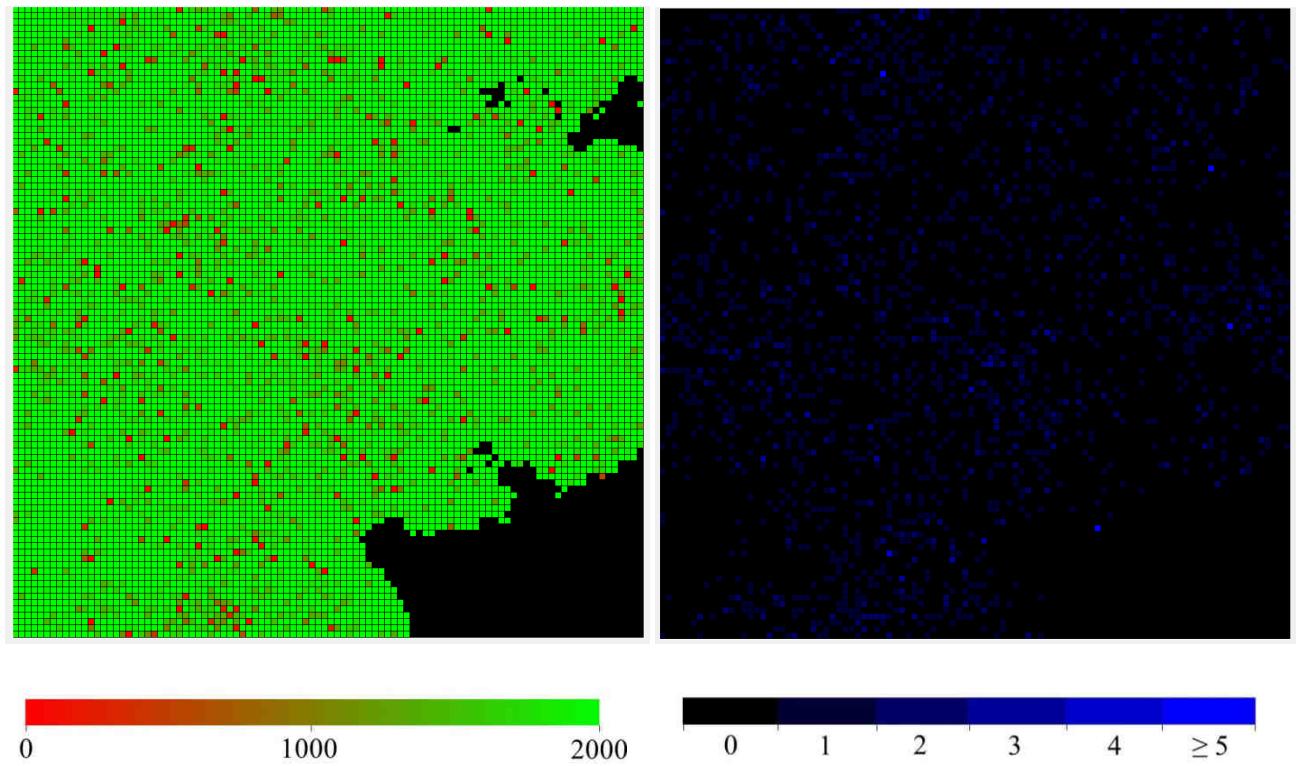


Figure S6.9: Spatial distribution of consumer (number of individuals) and resources (in Joule) within one simulation with uninformed movement and $P=0.90$ and $H=1$. On the left, the distribution of resources is displayed (black: unsuitable habitat) and on the right the distribution of consumers (black: no consumers present).