**Supplementary material Table 2:** Variables used in the analysis classified according to the type of environmental factor.

|  |  |
| --- | --- |
| environmental factor | variables tested |
| fragmentation | patch area (patch size metrics) |
|  | patch perimeter (patch size metrics) |
|  | gyrate level (patch size metrics) |
|  | perimeter/area ratio (patch complexity metrics) |
|  | shape index (patch complexity metrics) |
|  | fractal dimension index (patch complexity metrics) |
|  | related circumscribing circle (patch complexity metrics) |
|  | contiguity index (patch complexity and connectivity metrics) |
| ocean influence | distance of the centroid to the ocean |
| microclimate | year Potential Solar Radiation (average for all cells within the patch, for the year (sum of all months))  summer Potential Solar Radiation (average for all cells within the patch, for June)  winter Potential Solar Radiation (average for all cells within the patch, for December) |
| vegetation density within the forest patch | NDVI (average inside patch within a buffer with 1, 20, 40, 80 and 160m radius) |
| land-cover | *Land-cover was calculated as the sum of the area occupied by each land-cover type in a circular area around the patch centroid. Circular areas with 1, 10, 20, 40, 80, 160, 320, 640, 1280, 2560 m radius were used.*  urban-sparse (sum of the area occupied by low density houses) |
|  | urban-normal (sum of the area occupied by medium density houses) |
|  | urban-dense (sum of the area occupied by high density houses) |
|  | urban areas (sum of the area occupied by houses) |
|  | roads (sum of area occupied by roads) |
|  | artificial areas (sum of the area occupied by urban and roads) |
|  | green areas (sum of area occupied by parks and gardens) |
|  | agriculture & semi- natural areas (sum of area occupied by agriculture, shrublands and marches) |
|  | forest (sum of area occupied by forests) |