**2000 Model**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** | **Parameter** | **Prior** | **Posterior mean** | **Posterior SD** |
| Red deer | Unstructured random effect | **-** | **-** | **-** |
| Range of the spatial field (m) | ρ0 = 50000, P(ρ) = 0.05 | 54720.85 | 0.15 |
| Standard deviation of the spatial field | σ0 = 0.5, P(σ) = 0.1 | 1.08 | 0.15 |
| Intercept |  | -3.28 | 0.67 |
| Slopes of the fixed effects |  | SM2b | SM2b |
| Sika deer | Unstructured random effect | **-** |  |  |
| Range of the spatial field (m) | ρ0 = 85000, P(ρ) = 0.05 | 81633.91 | 0.15 |
| Standard deviation of the spatial field | σ0 = 0.1, P(σ) = 0.1 | 1.04 | 0.08 |
| Intercept |  | -2.99 | 0.83 |
| Slopes of the fixed effects |  | SM2b | SM2b |
| Fallow deer | Unstructured random effect | **-** |  |  |
| Range of the spatial field (m) | ρ0 = 75000, P(ρ) = 0.05 | 63576.55 | 0.13 |
| Standard deviation of the spatial field | σ0 = 2, P(σ) = 0.1 | 1.06 | 0.08 |
| Intercept |  | -3.38 | 1.01 |
| Slopes for the fixed effects |  | SM2b | SM2b |

**2006 Model**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** | **Parameter** | **Prior** | **Posterior mean** | **Posterior SD** |
| Red deer | Unstructured random effect | **-** | **-** | **-** |
| Range of the spatial field (m) | ρ0 = 50000, P(ρ) = 0.05 | 54720.85 | 0.15 |
| Standard deviation of the spatial field | σ0 = 0.5, P(σ) = 0.1 | 0.94 | 0.09 |
| Intercept |  | -2 | 0.15 |
| Slopes of the fixed effects |  | SM2b | SM2b |
| Sika deer | Unstructured random effect | **-** |  |  |
| Range of the spatial field (m) | ρ0 = 85000, P(ρ) = 0.05 | 78433.00 | 0.17 |
| Standard deviation of the spatial field | σ0 = 0.1, P(σ) = 0.1 | 0.93 | 0.08 |
| Intercept |  | -1.47 | 0.75 |
| Slopes of the fixed effects |  | SM2b | SM2b |
| Fallow deer | Unstructured random effect | **-** |  |  |
| Range of the spatial field (m) | ρ0 = 75000, P(ρ) = 0.05 | 76879.92 | 0.13 |
| Standard deviation of the spatial field | σ0 = 2, P(σ) = 0.1 | 1.09 | 0.13 |
| Intercept |  | -1.8 | 1.09 |
| Slopes for the fixed effects |  | SM2b | SM2b |

**2012 Model**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** | **Parameter** | **Prior** | **Posterior mean** | **Posterior SD** |
| Red deer | Unstructured random effect | **-** | **-** | **-** |
| Range of the spatial field (m) | ρ0 = 50000, P(ρ) = 0.05 | 59874.14 | 0.14 |
| Standard deviation of the spatial field | σ0 = 0.5, P(σ) = 0.1 | 1.15 | 0.08 |
| Intercept |  | -1.91 | 0.66 |
| Slopes of the fixed effects |  | SM2b | SM2b |
| Sika deer | Unstructured random effect | **-** |  |  |
| Range of the spatial field (m) | ρ0 = 85000, P(ρ) = 0.05 | 79221.26 | 0.15 |
| Standard deviation of the spatial field | σ0 = 0.1, P(σ) = 0.1 | 0.81 | 0.09 |
| Intercept |  | -0.35 | 0.71 |
| Slopes of the fixed effects |  | SM2b | SM2b |
| Fallow deer | Unstructured random effect | **-** |  |  |
| Range of the spatial field (m) | ρ0 = 75000, P(ρ) = 0.05 | 77652.58 | 0.08 |
| Standard deviation of the spatial field | σ0 = 2, P(σ) = 0.1 | 1.01 | 0.13 |
| Intercept |  | -1.66 | 1.02 |
| Slopes for the fixed effects |  | SM2b | SM2b |