**Table a.** Summary of the GPS tracking data used in the GLMM. PTT refers to the individual’s number, and Nloc to the number of locations recorded by the tag (e.g. Nloc total) and retained for the analysis (e.g. occurrence data and number of pseudo-absences generated per individual).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PTT** | **Start date** | **End date** | **Duration** | **Nloc total** | **Nloc retained** |
| 32900b | 25/10/2010 | 11/02/2011 | 109 | 702 | 471 |
| 32888c | 28/11/2012 | 05/02/2013 | 69 | 1737 | 1406 |
| 121814 | 28/12/2012 | 03/02/2013 | 37 | 240 | 233 |
| 121815 | 12/12/2012 | 05/09/2013 | 267 | 7426 | 4909 |
| 121816 | 05/12/2012 | 06/03/2013 | 91 | 292 | 198 |
| 121817 | 29/11/2012 | 03/07/2013 | 216 | 5050 | 3264 |
| 121818 | 29/11/2012 | 20/04/2013 | 142 | 1112 | 1027 |
| 121819 | 28/11/2012 | 23/06/2013 | 207 | 937 | 357 |
| 121821 | 21/12/2012 | 02/07/2013 | 193 | 848 | 788 |
| 32888d | 08/03/2013 | 26/03/2013 | 18 | 123 | 106 |
| 32897c | 28/11/2012 | 31/03/2013 | 123 | 1474 | 1225 |
| 32899c | 28/11/2012 | 11/04/2013 | 134 | 2723 | 1662 |
| 167852 | 07/02/2019 | 26/04/2019 | 78 | 1549 | 1250 |
| 169513 | 14/05/2018 | 01/07/2018 | 48 | 174 | 168 |
| 169514 | 14/05/2018 | 28/06/2018 | 45 | 86 | 75 |
| 169515 | 14/05/2018 | 29/07/2018 | 76 | 149 | 98 |
| 169516 | 01/05/2018 | 31/08/2018 | 122 | 5277 | 2391 |
| 169518 | 24/01/2019 | 01/04/2019 | 67 | 570 | 446 |
| 169519 | 24/01/2019 | 08/04/2019 | 74 | 1414 | 1407 |
| 169520 | 25/01/2019 | 21/02/2019 | 27 | 183 | 123 |
| 169521 | 07/02/2019 | 18/03/2019 | 39 | 395 | 391 |
|  |  |  | *104±55* | *1545±1379* | *1047±870* |

**Table b.** Summary of the averaged Population model.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Estimate** | **Std. Error** | **p value** |
| Slope variance | -3.34533 | 0.18052 | <0.001 |
| Concavity | 2.35084 | 0.20676 | <0.001 |
| Distance to rocks | -6.3484 | 0.30688 | <0.001 |
| Slope | 16.12915 | 0.32272 | <0.001 |
| Bathymetry | -2.73157 | 0.05817 | <0.001 |

**Table c.** Summary of the averaged Individual model.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Estimate** | **Std. Error** | **p value** |
| Slope variance | -5.1783 | 0.41617 | <0.001 |
| Concavity | 1.00092 | 0.47373 | 0.0346 |
| Distance to rocks | -17.96151 | 0.84702 | <0.001 |
| Slope | 9.68676 | 0.49474 | <0.001 |
| Bathymetry | 0.01367 | 0.12739 | 0.9145 |
| Dispersal Coefficient | 11.30999 | 0.17749 | <0.001 |