**Table S1.** Model selection for the nine spacial scales (400 m to 2,000 m) considered, for each sunfleck temporal class (all of eight classes). Values of dAICc (Delta Corrected Akaike Infomation Criterion) and the weights (W). The most parsimonious models are in bold, considering the one with the lowest dAICc and the highest weight.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 400m | | 600m | | 800m | | 1,000m | | 1,200m | | 1,400m | | 1,600m | | 1,800m | | 2,000m | |
| Sunfleck (min) | dAICc | W | dAICc | W | dAICc | W | dAICc | W | dAICc | W | dAICc | W | dAICc | W | dAICc | W | dAICc | W |
| 2 ˫ 4 | 11.6 | <0.001 | 11.0 | <0.001 | 9.1 | 0.002 | 5.6 | 0.014 | 1.3 | 0.116 | **0.0** | **0.228** | 0.1 | 0.222 | 0.2 | 0.207 | 0.2 | 0.209 |
| 4 ˫ 8 | 11.6 | <0.001 | 11.0 | <0.001 | 9.1 | 0.003 | 5.7 | 0.014 | 1.3 | 0.121 | **0.0** | **0.235** | 0.1 | 0.222 | 0.3 | 0.202 | 0.3 | 0.203 |
| 8 ˫ 16 | 11.6 | <0.001 | 10.9 | 0.001 | 9.0 | 0.003 | 5.7 | 0.016 | 1.4 | 0.137 | **0.0** | **0.277** | 0.3 | 0.273 | 0.9 | 0.180 | 1.3 | 0.148 |
| 16 ˫ 32 | 12.2 | <0.001 | 11.4 | <0.001 | 9.6 | 0.002 | 6.4 | 0.010 | 1.8 | 0.099 | **0.0** | **0.244** | 0.0 | 0.240 | 0.3 | 0.214 | 0.5 | 0.190 |
| 32 ˫ 64 | 11.3 | <0.001 | 11.0 | 0.001 | 9.5 | 0.002 | 6.4 | 0.010 | 2.2 | 0.085 | **0.0** | **0.252** | 0.1 | 0.241 | 0.3 | 0.218 | 0.6 | 0.190 |
| ≥ 64 | 12.5 | <0.001 | 11.4 | 0.001 | 9.7 | 0.003 | 6.6 | 0.012 | 3.1 | 0.069 | 1.4 | 0.159 | 1.1 | 0.180 | 0.4 | 0.260 | **0.0** | **0.317** |
| < 32 | 11.8 | <0.001 | 11.1 | <0.001 | 9.1 | 0.003 | 5.6 | 0.015 | 1.3 | 0.127 | **0.0** | **0.243** | 0.2 | 0.223 | 0.4 | 0.196 | 0.5 | 0.192 |
| ≥ 32 | 11.5 | <0.001 | 10.8 | 0.001 | 9.4 | 0.002 | 6.4 | 0.010 | 2.6 | 0.068 | 0.4 | 0.205 | 0.3 | 0.214 | **0.0** | **0.252** | 0.0 | 0.248 |