Table 1S: Spatial autocorrelation in model residuals for each species, according to Moran’s I test.

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| Species | Moran’s I | p |
| *Anthus spinoletta* | 0.148 | 0.00086 |
| *Certhia familiaris* | 0.025 | 0.46856 |
| *Erithacus rubecula* | 0.119 | 0.00672 |
| *Fringilla coelebs* | -0.005 | 0.92602 |
| *Lophophanes cristatus* | 0.043 | 0.25851 |
| *Oenanthe oenanthe* | 0.187 | 0.00003 |
| *Periparus ater* | 0.182 | 0.00007 |
| *Phylloscupus collybita* | 0.414 | < 0.0001 |
| *Poecile montanus* | 0.065 | 0.11781 |
| *Prunella modularis* | 0.049 | 0.22513 |
| *Pyrrhula pyrrhula* | 0.183 | 0.00006 |
| *Regulus regulus* | 0.222 | < 0.0001 |
| *Sylvia atricapilla* | 0.233 | < 0.0001 |
| *Turdus torquatus* | -0.009 | 0.99966 |
| *Turdus viscivorus* | -0.037 | 0.53382 |