**Table S2.** To determine if the coniferous dominance, the plant richness and the latitude have impact on caterpillar richness, abundance or parasitism rate, candidate models for caterpillar richness, abundance and parasitism rate were created. The models, their AICc and ΔAICc values and can be found in the table below. Since multiple models have a Δ AICc <2, the *modavg* function form the AICcmodavg package (v.2.3.1. Mazerolle 2020) was used to determine the best fit. This function computes an estimate and a confidence interval on selected parameters from a list of candidate models. The confidence intervals, in the table below, for the coniferous dominance, the plant richness and the latitude includes zero, in the case of caterpillar richness, abundance and parasitism rate, meaning that these parameters have no effect. These factors were not kept in the subsequent models. Trt: Treatment ; Yr: Year ; Con: Coniferous percentage cover ; Plant: number of plant species ; Lat: Latitude.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Model | Parameters | AICc | Δ AICc |
| Caterpillar richness | 1 | Trt | 353.82 | 0.00 |
|  | 2 | Trt + Con | 354.13 | 0.22 |
|  | 3 | Trt + Plant | 354.86 | 0.94 |
|  | 4 | Trt + Lat | 355.73 | 1.81 |
|  | 5 | Trt + Yr + Con + Plant + Lat | 358.33 | 4.41 |
|  | 6 | Plant | 359.47 | 5.55 |
|  | 7 | Intercept  | 359.62 | 5.70 |
|  | 8 | Con | 359.84 | 5.92 |
|  | 9 | Con + Lat | 359.88 | 5.96 |
|  | 10 | Plant + Lat | 360.00 | 6.08 |
|  | 11 | Lat | 360.23 | 6.31 |
|  | 12 | Con + Plant | 360.48 | 6.56 |
|  | 13 | Con + Plant + Lat | 360.50 | 6.58 |
|  | 14 | Year | 361.43 | 7.51 |
| Caterpillar abundance | 1 | Trt + Yr + Con + Plant + Lat | 893.95 | 0.00 |
|  | 2 | Trt + Plant | 894.57 | 0.62 |
|  | 3 | Trt + Con | 894.85 | 0.90 |
|  | 4 | Trt | 895.16 | 1.21 |
|  | 5 | Trt.+ Lat | 896.88 | 2.93 |
|  | 6 | Con + Plant + Lat | 995.24 | 101.29 |
|  | 7 | Con + Plant | 998.36 | 104.41 |
|  | 8 | Con + Lat | 1002.83 | 108.87 |
|  | 9 | Con | 1011.79 | 117.84 |
|  | 10 | Plant + Lat | 1019.96 | 126.00 |
|  | 11 | Plant  | 1024.52 | 130.56 |
|  | 12 | Year | 1040.50 | 146.55 |
|  | 13 | Intercept  | 1043.81 | 149.86 |
|  | 14 | Latitude | 1048.68 | 154.73 |
| Parasitism rate | 1 | Trt | 338.29 | 0.00 |
|  | 2 | Trt + Plant | 339.83 | 1.54 |
|  | 3 | Trt + Con | 340.22 | 1.93 |
|  | 4 | Trt + Lat | 340.46 | 2.17 |
|  | 5 | Trt + Yr + Con + Plant + Lat | 346.07 | 7.78 |
|  | 6 | Con + Lat | 358.80 | 20.51 |
|  | 7 | Con | 359.24 | 20.95 |
|  | 8 | Con + Plant + Lat | 359.80 | 21.51 |
|  | 9 | Yr | 360.16 | 21.87 |
|  | 10 | Con + Plant | 360.50 | 22.22 |
|  | 11 | Plant  | 366.05 | 27.76 |
|  | 12 | Intercept | 366.83 | 28.54 |
|  | 13 | Plant + Lat | 368.15 | 29.86 |
|  | 14 | Lat | 368.71 | 30.42 |

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Predictor | Estimate | 95 % CI |
| Caterpillar richness | Con | -0.01 | -0.02 ; 0.01 |
|  | Plant | 0.02 | -0.01 ; 0.05 |
|  | Lat | 0.51 | -0.53 ; 1.55 |
| Caterpillar abundance | Con | -0.01 | -0.02 ; 0.02 |
|  | Plant | 0.02 | -0.01 ; 0.05 |
|  | Lat | 0.51 | -0.28 ; 1.31 |
| Parasitism rate | Con | 0.01 | -0.02 ; 0.01 |
|  | Plant | 0.02 | -0.03 ; 0.06 |
|  | Lat | 0.08 | -1.16 ; 1.32 |