### **Appendix S6.** Regressions parameters between resistance and the degree of disturbance.

**Table S6-1.** Details for the linear regressions fitted to estimate the relationships between resistance and the degree of disturbance for each ecosystem services and biodiversity values.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pulse set |  |  | Pulse+press set |  |  | Difference  between pulse and pulse+press? |
| Variables | Intercept | a | R2 | Intercept | a | R2 |  |
| Aboveground biomass |  |  |  |  |  |  |  |
| Aesthetic value |  |  |  |  |  |  |  |
| Commercially harvested fungi richness |  |  |  |  |  |  |  |
| Ectomycorrhizal fungi richness |  |  |  |  |  |  |  |
| Epiphytic lichens richness |  |  |  |  |  |  |  |
| Ground flora richness |  |  |  |  |  |  |  |
| Net mineralisation |  |  |  |  |  |  |  |
| Recreation value |  |  |  |  |  |  |  |
| Soil nitrogen stock |  |  |  |  |  |  |  |
| Soil respiration rate |  |  |  |  |  |  |  |
| Timber volume |  |  |  |  |  |  |  |
| Total carbon stock |  |  |  |  |  |  |  |
| Trees species richness |  |  |  |  |  |  |  |

**Table S6-2.** Details for the linear regressions fitted to estimate the relationships between recovery time and the degree of disturbance for each ecosystem services and biodiversity values.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pulse set |  |  | Pulse+press set |  |  | Difference  between pulse and pulse+press? |
| Variables | Intercept | a | R2 | Intercept | a | R2 |  |
| Aboveground biomass |  |  |  |  |  |  |  |
| Aesthetic values |  |  |  |  |  |  |  |
| Commercially harvested fungi richness |  |  |  |  |  |  |  |
| Ectomycorrhizal fungi richness |  |  |  |  |  |  |  |
| Epiphytic lichens richness |  |  |  |  |  |  |  |
| Ground flora richness |  |  |  |  |  |  |  |
| Net mineralisation |  |  |  |  |  |  |  |
| Recreation value |  |  |  |  |  |  |  |
| Soil nitrogen stock |  |  |  |  |  |  |  |
| Soil respiration rate |  |  |  |  |  |  |  |
| Timber volume |  |  |  |  |  |  |  |
| Total carbon stock |  |  |  |  |  |  |  |
| Trees species richness |  |  |  |  |  |  |  |

**Table S6-3.** Details for the regressions fitted to estimate the relationships between persistence and the degree of disturbance for each ecosystem services and biodiversity values.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pulse set |  |  |  | Pulse+press set |  |  |  | Threshold? |
| Variables | Best model | df | AICc | R2 | Best model | df | AICc | R2 |  |
| Aboveground biomass |  |  |  |  |  |  |  |  |  |
| Aesthetic values |  |  |  |  |  |  |  |  |  |
| Commercially harvested fungi richness |  |  |  |  |  |  |  |  |  |
| Ectomycorrhizal fungi richness |  |  |  |  |  |  |  |  |  |
| Epiphytic lichens richness |  |  |  |  |  |  |  |  |  |
| Ground flora richness |  |  |  |  |  |  |  |  |  |
| Net mineralisation |  |  |  |  |  |  |  |  |  |
| Recreation value |  |  |  |  |  |  |  |  |  |
| Soil nitrogen stock |  |  |  |  |  |  |  |  |  |
| Soil respiration rate |  |  |  |  |  |  |  |  |  |
| Timber volume |  |  |  |  |  |  |  |  |  |
| Total carbon stock |  |  |  |  |  |  |  |  |  |
| Trees species richness |  |  |  |  |  |  |  |  |  |