**Table S1: p Values for correlation (R and R2).**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Correlation** | **Sample Number** | **DF** | **R2** | **R** | **p-Value****(Two-tail)** | **Significant****(<0.05)** |
| All F14Caperture to site location | 32 | 31 | 0.0525 | 0.2291 | 0.1997 | no |
| All F14Caperture (ex. AP12, RH12) to site location | 26 | 25 | 0.1892 | 0.4350 | 0.0234 | yes |
| All F14Caperture scatter to Site location | 10 | 9 | 0.294 | 0.5422 | 0.0849 | no |
| All F14Capices to site location | 18 | 17 | 0.4031 | 0.6349 | 0.0035 | YES |
| All F14Capices scatter to site location | 5 | 4 | 0.2546 | 0.5046 | 0.3073 | no |
| All F14Cwholeshell to site location | 37 | 36 | 0.0423 | 0.2057 | 0.2154 | no |
| All F14Cwholeshell scatter to site location | 10 | 9 | 0.315 | 0.5612 | 0.0725 | no |
| All F14Caperture to Total veg. cover | 32 | 31 | 0.2735 | 0.5230 | 0.0018 | YES |
| All F14Caperture to Tree/Shrub cover | 32 | 31 | 0.5597 | 0.7481 | 0.0001 | YES |
| All F14Capices to Total veg. cover | 18 | 17 | 0.2116 | 0.4600 | 0.0475 | yes |
| All F14Capices to Tree/Shrub cover | 18 | 17 | 0.5873 | 0.7664 | 0.0001 | YES |
| All F14Cwholeshell to Total veg. cover | 37 | 36 | 0.4501 | 0.6709 | 0.0001 | YES |
| All F14Cwholeshell to Tree/Shrub cover | 37 | 36 | 0.7976 | 0.8931 | 0.0001 | YES |
| All δ13Cshell measure to predicted | 22 | 21 | 0.2492 | 0.4992 | 0.0153 | YES |
| All δ13Cshell enrich. To Tree/Shrub cover | 26 | 25 | 0.5314 | 0.7290 | 0.0001 | YES |
| All δ13Cshell pred. diffs to site location | 26 | 25 | 0.0645 | 0.2540 | 0.2011 | no |
| All δ13Cshell measured to total vegetation cover | 26 | 25 | 0.0186 | 0.1364 | 0.4976 | no |
| All δ13Cshell measured to Tree/Shrub | 26 | 25 | 0.0123 | 0.1109 | 0.5818 | no |
| All F14Cwholeshell to δ13Cshell | 27 | 26 | 0.0013 | 0.0361 | 0.8583 | no |
| F14Cwhole shell to F14Cdiet (organic) | 37 | 36 | 0.189 | 0.4347 | 0.0064 | YES |