**Supplemental Table S2:**

**We evaluated Pearson correlation coefficients for inclusion in our distribution model.**

We evaluated Pearson correlation coefficients and restricted variables with correlation >0.6 to guide variables in a Humboldt marten (*Martes caurina humboldtensis*) distribution model. For our final model, we selected canopy cover over the diameter diversity index. We selected OGSI over tree age or diameter diversity index due to its use in prior Humboldt marten range wide models. We selected salal over huckleberry because of salal’s presumed structural use (Eriksson et al. 2019, Moriarty et al. 2019).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | Forest Age\_270 | Canopy cover\_1170 | Coastal proximity\_50 | Diameter diversity index\_1170 | Downed wood\_270 | Salal\_1170 | Mast\_1170 | OGSI\_50 | Percent pine\_1170 | Percent slope\_1170 | Precipitation\_30yr\_1170 | Snag density\_742 | Max Aug temperature\_30yr\_1170 | Topographic position index\_270 | Tree density\_1170 | Vaccinium\_1170 |
| Forest Age\_270 | 1 | 0.21 | 0.31 | 0.64 | 0.27 | -0.15 | 0.12 | 0.72 | -0.02 | 0.35 | 0.16 | 0.55 | -0.08 | -0.04 | 0.70 | -0.36 |
| Canopy cover\_1170 | 0.21 | 1 | -0.19 | 0.76 | 0.34 | 0.09 | 0.31 | 0.30 | -0.51 | 0.09 | 0.06 | -0.07 | 0.11 | -0.01 | 0.40 | 0.19 |
| Coastal proximity\_50 | 0.31 | -0.19 | 1 | 0.07 | -0.30 | -0.75 | 0.03 | 0.22 | 0.00 | 0.34 | -0.41 | -0.05 | 0.21 | 0.00 | -0.13 | -0.84 |
| Diameter diversity index\_1170 | 0.64 | 0.76 | 0.07 | 1 | 0.36 | -0.05 | 0.24 | 0.60 | -0.32 | 0.29 | 0.12 | 0.36 | -0.05 | 0.00 | 0.74 | -0.11 |
| Downed wood\_270 | 0.27 | 0.34 | -0.30 | 0.36 | 1 | 0.29 | -0.14 | 0.36 | -0.19 | 0.00 | 0.05 | 0.39 | -0.26 | -0.03 | 0.49 | 0.30 |
| Salal\_1170 | -0.15 | 0.09 | -0.75 | -0.05 | 0.29 | 1 | -0.09 | -0.16 | 0.01 | -0.10 | 0.65 | 0.16 | -0.34 | 0.01 | 0.25 | 0.79 |
| Mast\_1170 | 0.12 | 0.31 | 0.03 | 0.24 | -0.14 | -0.09 | 1 | 0.10 | -0.10 | 0.30 | 0.25 | -0.13 | 0.47 | -0.03 | 0.06 | -0.15 |
| OGSI\_50 | 0.72 | 0.30 | 0.22 | 0.60 | 0.36 | -0.16 | 0.10 | 1 | -0.12 | 0.27 | 0.03 | 0.44 | -0.08 | -0.04 | 0.51 | -0.26 |
| Percent pine\_1170 | -0.02 | -0.51 | 0.00 | -0.32 | -0.19 | 0.01 | -0.10 | -0.12 | 1 | -0.13 | 0.11 | 0.17 | -0.10 | 0.01 | -0.16 | -0.05 |
| Percent slope\_1170 | 0.35 | 0.09 | 0.34 | 0.29 | 0.00 | -0.10 | 0.30 | 0.27 | -0.13 | 1 | 0.18 | 0.23 | -0.01 | -0.01 | 0.23 | -0.32 |
| Precipitation\_30yr\_1170 | 0.16 | 0.06 | -0.41 | 0.12 | 0.05 | 0.65 | 0.25 | 0.03 | 0.11 | 0.18 | 1 | 0.32 | -0.19 | 0.00 | 0.32 | 0.26 |
| Snag density\_742 | 0.55 | -0.07 | -0.05 | 0.36 | 0.39 | 0.16 | -0.13 | 0.44 | 0.17 | 0.23 | 0.32 | 1 | -0.48 | 0.03 | 0.61 | -0.06 |
| Max Aug temperature\_30yr\_1170 | -0.08 | 0.11 | 0.21 | -0.05 | -0.26 | -0.34 | 0.47 | -0.08 | -0.10 | -0.01 | -0.19 | -0.48 | 1 | -0.06 | -0.16 | -0.21 |
| Topographic position index\_270 | -0.04 | -0.01 | 0.00 | 0.00 | -0.03 | 0.01 | -0.03 | -0.04 | 0.01 | -0.01 | 0.00 | 0.03 | -0.06 | 1 | 0.00 | 0.01 |
| Tree density\_1170 | 0.70 | 0.40 | -0.13 | 0.74 | 0.49 | 0.25 | 0.06 | 0.51 | -0.16 | 0.23 | 0.32 | 0.61 | -0.16 | 0.00 | 1 | 0.09 |
| Vaccinium\_1170 | -0.36 | 0.19 | -0.84 | -0.11 | 0.30 | 0.79 | -0.15 | -0.26 | -0.05 | -0.32 | 0.26 | -0.06 | -0.21 | 0.01 | 0.09 | 1 |