| regions | sel\_nutrient | mod\_name | mod\_formula | AICc | delta | model\_df | deviance | d2 | residual\_df | lr\_chisq | chisq\_df | p\_value\_chisq | lr\_signif | best\_model\_candidate | best\_model |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ecuador | amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 73.30 | 0.00 | 2 | 68.70 | 1.00 | 21 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| ecuador | amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 75.16 | 1.86 | 3 | 67.89 | 0.01 | 20 | 0.81 | 1 | 0.37 |  | TRUE | TRUE |
| ecuador | amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 75.45 | 2.15 | 3 | 68.19 | 0.01 | 20 | 0.51 | 1 | 0.48 |  | FALSE | FALSE |
| ecuador | amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 75.90 | 2.60 | 3 | 68.63 | 0.00 | 20 | 0.06 | 1 | 0.80 |  | FALSE | FALSE |
| png | amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 70.44 | 0.00 | 2 | 65.74 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| png | amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 73.07 | 2.63 | 3 | 65.57 | 0.00 | 17 | 0.16 | 1 | 0.69 |  | FALSE | FALSE |
| png | amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 71.75 | 1.31 | 3 | 64.25 | 0.02 | 17 | 1.48 | 1 | 0.22 |  | TRUE | TRUE |
| png | amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 73.23 | 2.79 | 3 | 65.73 | 0.00 | 17 | 0.00 | 1 | 0.94 |  | FALSE | FALSE |
| tanzania | amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 38.05 | 0.00 | 2 | 32.33 | 1.00 | 8 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 42.23 | 4.18 | 3 | 32.23 | 0.00 | 7 | 0.10 | 1 | 0.75 |  | FALSE | FALSE |
| tanzania | amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 41.94 | 3.90 | 3 | 31.94 | 0.01 | 7 | 0.39 | 1 | 0.53 |  | FALSE | FALSE |
| tanzania | amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 42.33 | 4.28 | 3 | 32.33 | 0.00 | 7 | 0.00 | 1 | 0.95 |  | FALSE | FALSE |
| ecuador | cho | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 77.39 | 0.00 | 2 | 72.79 | 1.00 | 21 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| ecuador | cho | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 80.03 | 2.64 | 3 | 72.77 | 0.00 | 20 | 0.02 | 1 | 0.88 |  | FALSE | FALSE |
| ecuador | cho | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 79.50 | 2.11 | 3 | 72.24 | 0.01 | 20 | 0.55 | 1 | 0.46 |  | FALSE | FALSE |
| ecuador | cho | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 79.89 | 2.50 | 3 | 72.63 | 0.00 | 20 | 0.16 | 1 | 0.69 |  | FALSE | FALSE |
| png | cho | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 68.08 | 0.00 | 2 | 63.38 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | cho | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 70.84 | 2.76 | 3 | 63.34 | 0.00 | 17 | 0.03 | 1 | 0.86 |  | FALSE | FALSE |
| png | cho | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 70.73 | 2.65 | 3 | 63.23 | 0.00 | 17 | 0.15 | 1 | 0.70 |  | FALSE | FALSE |
| png | cho | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 70.87 | 2.79 | 3 | 63.37 | 0.00 | 17 | 0.01 | 1 | 0.93 |  | FALSE | FALSE |
| tanzania | cho | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 28.41 | 0.00 | 2 | 22.70 | 1.00 | 8 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | cho | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 31.82 | 3.40 | 3 | 21.82 | 0.04 | 7 | 0.88 | 1 | 0.35 |  | FALSE | FALSE |
| tanzania | cho | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 31.61 | 3.20 | 3 | 21.61 | 0.05 | 7 | 1.09 | 1 | 0.30 |  | FALSE | FALSE |
| tanzania | cho | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 32.61 | 4.20 | 3 | 22.61 | 0.00 | 7 | 0.09 | 1 | 0.77 |  | FALSE | FALSE |
| ecuador | cho\_amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 79.20 | 2.67 | 2 | 74.60 | 1.00 | 21 | 0.00 | 0 | 1.00 |  | FALSE | FALSE |
| ecuador | cho\_amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 77.98 | 1.46 | 3 | 70.72 | 0.05 | 20 | 3.88 | 1 | 0.05 | \* | TRUE | TRUE |
| ecuador | cho\_amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 76.53 | 0.00 | 3 | 69.26 | 0.07 | 20 | 5.33 | 1 | 0.02 | \* | TRUE | FALSE |
| ecuador | cho\_amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 81.86 | 5.33 | 3 | 74.60 | 0.00 | 20 | 0.00 | 1 | 0.98 |  | FALSE | FALSE |
| png | cho\_amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 73.57 | 1.11 | 2 | 68.87 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| png | cho\_amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 74.22 | 1.75 | 3 | 66.72 | 0.03 | 17 | 2.15 | 1 | 0.14 |  | TRUE | FALSE |
| png | cho\_amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 72.46 | 0.00 | 3 | 64.96 | 0.06 | 17 | 3.90 | 1 | 0.05 | \* | TRUE | TRUE |
| png | cho\_amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 75.32 | 2.85 | 3 | 67.82 | 0.01 | 17 | 1.05 | 1 | 0.30 |  | FALSE | FALSE |
| tanzania | cho\_amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 33.60 | 0.00 | 2 | 27.89 | 1.00 | 8 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | cho\_amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 36.01 | 2.41 | 3 | 26.01 | 0.07 | 7 | 1.87 | 1 | 0.17 |  | FALSE | FALSE |
| tanzania | cho\_amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 37.55 | 3.94 | 3 | 27.55 | 0.01 | 7 | 0.34 | 1 | 0.56 |  | FALSE | FALSE |
| tanzania | cho\_amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 35.68 | 2.08 | 3 | 25.68 | 0.08 | 7 | 2.20 | 1 | 0.14 |  | FALSE | FALSE |
| ecuador | h2o | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 61.31 | 0.00 | 2 | 56.71 | 1.00 | 21 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| ecuador | h2o | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 63.26 | 1.96 | 3 | 56.00 | 0.01 | 20 | 0.71 | 1 | 0.40 |  | TRUE | TRUE |
| ecuador | h2o | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 63.58 | 2.28 | 3 | 56.32 | 0.01 | 20 | 0.38 | 1 | 0.54 |  | FALSE | FALSE |
| ecuador | h2o | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 63.91 | 2.60 | 3 | 56.65 | 0.00 | 20 | 0.06 | 1 | 0.80 |  | FALSE | FALSE |
| png | h2o | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 65.97 | 0.00 | 2 | 61.26 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| png | h2o | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 66.42 | 0.46 | 3 | 58.92 | 0.04 | 17 | 2.34 | 1 | 0.13 |  | TRUE | TRUE |
| png | h2o | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 68.29 | 2.32 | 3 | 60.79 | 0.01 | 17 | 0.47 | 1 | 0.49 |  | FALSE | FALSE |
| png | h2o | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 66.44 | 0.48 | 3 | 58.94 | 0.04 | 17 | 2.32 | 1 | 0.13 |  | TRUE | FALSE |
| tanzania | h2o | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 35.79 | 0.00 | 2 | 30.08 | 1.00 | 8 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | h2o | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 39.98 | 4.19 | 3 | 29.98 | 0.00 | 7 | 0.09 | 1 | 0.76 |  | FALSE | FALSE |
| tanzania | h2o | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 38.11 | 2.32 | 3 | 28.11 | 0.06 | 7 | 1.96 | 1 | 0.16 |  | FALSE | FALSE |
| tanzania | h2o | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 39.10 | 3.32 | 3 | 29.10 | 0.03 | 7 | 0.97 | 1 | 0.32 |  | FALSE | FALSE |
| ecuador | lipid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 81.64 | 2.85 | 2 | 77.03 | 1.00 | 21 | 0.00 | 0 | 1.00 |  | FALSE | FALSE |
| ecuador | lipid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 83.51 | 4.72 | 3 | 76.25 | 0.01 | 20 | 0.78 | 1 | 0.38 |  | FALSE | FALSE |
| ecuador | lipid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 80.28 | 1.50 | 3 | 73.02 | 0.05 | 20 | 4.01 | 1 | 0.04 | \* | TRUE | FALSE |
| ecuador | lipid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 78.79 | 0.00 | 3 | 71.53 | 0.07 | 20 | 5.51 | 1 | 0.02 | \* | TRUE | TRUE |
| png | lipid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 65.06 | 0.00 | 2 | 60.35 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | lipid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 67.84 | 2.79 | 3 | 60.34 | 0.00 | 17 | 0.01 | 1 | 0.93 |  | FALSE | FALSE |
| png | lipid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 67.64 | 2.58 | 3 | 60.13 | 0.00 | 17 | 0.22 | 1 | 0.64 |  | FALSE | FALSE |
| png | lipid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 67.78 | 2.73 | 3 | 60.28 | 0.00 | 17 | 0.07 | 1 | 0.80 |  | FALSE | FALSE |
| tanzania | lipid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 36.09 | 0.00 | 2 | 30.37 | 1.00 | 8 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| tanzania | lipid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 38.36 | 2.27 | 3 | 28.36 | 0.07 | 7 | 2.02 | 1 | 0.16 |  | FALSE | FALSE |
| tanzania | lipid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 39.64 | 3.55 | 3 | 29.64 | 0.02 | 7 | 0.73 | 1 | 0.39 |  | FALSE | FALSE |
| tanzania | lipid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 37.93 | 1.84 | 3 | 27.93 | 0.08 | 7 | 2.45 | 1 | 0.12 |  | TRUE | TRUE |
| ecuador | nacl | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 83.40 | 0.00 | 2 | 78.80 | 1.00 | 21 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| ecuador | nacl | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 85.98 | 2.59 | 3 | 78.72 | 0.00 | 20 | 0.08 | 1 | 0.78 |  | FALSE | FALSE |
| ecuador | nacl | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 83.47 | 0.07 | 3 | 76.21 | 0.03 | 20 | 2.59 | 1 | 0.11 |  | TRUE | TRUE |
| ecuador | nacl | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 83.75 | 0.36 | 3 | 76.49 | 0.03 | 20 | 2.31 | 1 | 0.13 |  | TRUE | FALSE |
| png | nacl | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 75.02 | 2.75 | 2 | 70.31 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | FALSE | FALSE |
| png | nacl | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 72.27 | 0.00 | 3 | 64.77 | 0.08 | 17 | 5.54 | 1 | 0.02 | \* | TRUE | TRUE |
| png | nacl | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 73.86 | 1.59 | 3 | 66.36 | 0.06 | 17 | 3.95 | 1 | 0.05 | \* | TRUE | FALSE |
| png | nacl | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 73.89 | 1.62 | 3 | 66.39 | 0.06 | 17 | 3.92 | 1 | 0.05 | \* | TRUE | FALSE |
| tanzania | nacl | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ 1 | 32.26 | 0.00 | 2 | 26.54 | 1.00 | 8 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | nacl | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_generalistic\_prop | 35.75 | 3.49 | 3 | 25.75 | 0.03 | 7 | 0.79 | 1 | 0.37 |  | FALSE | FALSE |
| tanzania | nacl | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_herbivorous\_trophobiotic\_prop | 34.65 | 2.39 | 3 | 24.65 | 0.07 | 7 | 1.89 | 1 | 0.17 |  | FALSE | FALSE |
| tanzania | nacl | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ n\_occ\_predator\_scavenger\_prop | 34.72 | 2.46 | 3 | 24.72 | 0.07 | 7 | 1.82 | 1 | 0.18 |  | FALSE | FALSE |