| regions | sel\_bait\_type | 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) ~ poly(elevation\_mean, 1) + seasons | 68.40 | 0.00 | 4 | 58.18 | 1.00 | 19 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| ecuador | amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + n\_occ\_generalistic\_prop + poly(elevation\_mean, 1):n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 76.91 | 8.51 | 7 | 55.44 | 0.05 | 16 | 2.74 | 3 | 0.43 |  | FALSE | FALSE |
| ecuador | amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 1):n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 78.81 | 10.40 | 7 | 57.34 | 0.01 | 16 | 0.84 | 3 | 0.84 |  | FALSE | FALSE |
| ecuador | amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 1):n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 76.78 | 8.38 | 7 | 55.32 | 0.05 | 16 | 2.87 | 3 | 0.41 |  | FALSE | FALSE |
| png | amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons | 64.66 | 0.00 | 3 | 57.16 | 1.00 | 17 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 71.04 | 6.38 | 5 | 56.76 | 0.01 | 15 | 0.40 | 2 | 0.82 |  | FALSE | FALSE |
| png | amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 66.67 | 2.01 | 5 | 52.38 | 0.08 | 15 | 4.78 | 2 | 0.09 |  | FALSE | FALSE |
| png | amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 70.48 | 5.82 | 5 | 56.19 | 0.02 | 15 | 0.97 | 2 | 0.62 |  | FALSE | FALSE |
| tanzania | amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) | 38.45 | 0.00 | 3 | 28.45 | 1.00 | 7 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_generalistic\_prop + poly(elevation\_mean, 1):n\_occ\_generalistic\_prop | 46.96 | 8.51 | 5 | 21.96 | 0.23 | 5 | 6.49 | 2 | 0.04 | \* | FALSE | FALSE |
| tanzania | amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 1):n\_occ\_herbivorous\_trophobiotic\_prop | 52.68 | 14.23 | 5 | 27.68 | 0.03 | 5 | 0.77 | 2 | 0.68 |  | FALSE | FALSE |
| tanzania | amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 1):n\_occ\_predator\_scavenger\_prop | 45.89 | 7.45 | 5 | 20.89 | 0.27 | 5 | 7.55 | 2 | 0.02 | \* | FALSE | FALSE |
| ecuador | cho | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + poly(elevation\_mean, 1):seasons | 73.58 | 0.00 | 5 | 60.05 | 1.00 | 18 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| ecuador | cho | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + n\_occ\_generalistic\_prop + poly(elevation\_mean, 1):seasons + poly(elevation\_mean, 1):n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop + poly(elevation\_mean, 1):seasons:n\_occ\_generalistic\_prop | 85.34 | 11.76 | 9 | 53.49 | 0.11 | 14 | 6.56 | 4 | 0.16 |  | FALSE | FALSE |
| ecuador | cho | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 1):seasons + poly(elevation\_mean, 1):n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 1):seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 81.29 | 7.71 | 9 | 49.44 | 0.18 | 14 | 10.61 | 4 | 0.03 | \* | FALSE | FALSE |
| ecuador | cho | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + seasons + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 1):seasons + poly(elevation\_mean, 1):n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 1):seasons:n\_occ\_predator\_scavenger\_prop | 77.74 | 4.16 | 9 | 45.89 | 0.24 | 14 | 14.16 | 4 | 0.01 | \*\* | FALSE | FALSE |
| png | cho | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons | 69.22 | 0.00 | 3 | 61.72 | 1.00 | 17 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | cho | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 75.96 | 6.74 | 5 | 61.67 | 0.00 | 15 | 0.05 | 2 | 0.98 |  | FALSE | FALSE |
| png | cho | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 75.81 | 6.59 | 5 | 61.52 | 0.00 | 15 | 0.20 | 2 | 0.91 |  | FALSE | FALSE |
| png | cho | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 75.95 | 6.73 | 5 | 61.66 | 0.00 | 15 | 0.06 | 2 | 0.97 |  | FALSE | FALSE |
| ecuador | cho\_amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) | 79.48 | 0.00 | 4 | 69.26 | 1.00 | 19 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| ecuador | cho\_amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + n\_occ\_generalistic\_prop + poly(elevation\_mean, 2):n\_occ\_generalistic\_prop | 82.02 | 2.54 | 7 | 60.55 | 0.13 | 16 | 8.71 | 3 | 0.03 | \* | FALSE | FALSE |
| ecuador | cho\_amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 2):n\_occ\_herbivorous\_trophobiotic\_prop | NA | NA | 7 | NA | NA | 16 | NA | 3 | NA |  | NA | NA |
| ecuador | cho\_amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 2):n\_occ\_predator\_scavenger\_prop | 88.15 | 8.67 | 7 | 66.69 | 0.04 | 16 | 2.58 | 3 | 0.46 |  | FALSE | FALSE |
| png | cho\_amino\_acid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons | 72.79 | 0.00 | 3 | 65.29 | 1.00 | 17 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | cho\_amino\_acid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 76.53 | 3.74 | 5 | 62.24 | 0.05 | 15 | 3.04 | 2 | 0.22 |  | FALSE | FALSE |
| png | cho\_amino\_acid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 75.26 | 2.47 | 5 | 60.97 | 0.07 | 15 | 4.32 | 2 | 0.12 |  | FALSE | FALSE |
| png | cho\_amino\_acid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 77.39 | 4.60 | 5 | 63.10 | 0.03 | 15 | 2.18 | 2 | 0.34 |  | FALSE | FALSE |
| png | h2o | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons | 67.37 | 0.00 | 3 | 59.87 | 1.00 | 17 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | h2o | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 72.32 | 4.94 | 5 | 58.03 | 0.03 | 15 | 1.84 | 2 | 0.40 |  | FALSE | FALSE |
| png | h2o | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 73.85 | 6.47 | 5 | 59.56 | 0.00 | 15 | 0.31 | 2 | 0.86 |  | FALSE | FALSE |
| png | h2o | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 72.28 | 4.90 | 5 | 57.99 | 0.03 | 15 | 1.88 | 2 | 0.39 |  | FALSE | FALSE |
| tanzania | h2o | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) | 33.63 | 0.00 | 3 | 23.63 | 1.00 | 7 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | h2o | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_generalistic\_prop + poly(elevation\_mean, 1):n\_occ\_generalistic\_prop | 39.63 | 6.00 | 5 | 14.63 | 0.38 | 5 | 9.00 | 2 | 0.01 | \* | FALSE | FALSE |
| tanzania | h2o | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 1):n\_occ\_herbivorous\_trophobiotic\_prop | 48.47 | 14.84 | 5 | 23.47 | 0.01 | 5 | 0.16 | 2 | 0.92 |  | FALSE | FALSE |
| tanzania | h2o | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 1):n\_occ\_predator\_scavenger\_prop | 39.98 | 6.35 | 5 | 14.98 | 0.37 | 5 | 8.65 | 2 | 0.01 | \* | FALSE | FALSE |
| ecuador | lipid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) | 70.56 | 0.00 | 4 | 60.34 | 1.00 | 19 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| ecuador | lipid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + n\_occ\_generalistic\_prop + poly(elevation\_mean, 2):n\_occ\_generalistic\_prop | 74.42 | 3.86 | 7 | 52.96 | 0.12 | 16 | 7.38 | 3 | 0.06 |  | FALSE | FALSE |
| ecuador | lipid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 2):n\_occ\_herbivorous\_trophobiotic\_prop | 80.87 | 10.30 | 7 | 59.40 | 0.02 | 16 | 0.94 | 3 | 0.82 |  | FALSE | FALSE |
| ecuador | lipid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 2):n\_occ\_predator\_scavenger\_prop | 77.15 | 6.59 | 7 | 55.69 | 0.08 | 16 | 4.65 | 3 | 0.20 |  | FALSE | FALSE |
| png | lipid | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + seasons | 62.92 | 0.00 | 5 | 48.63 | 1.00 | 15 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| png | lipid | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + seasons + n\_occ\_generalistic\_prop + poly(elevation\_mean, 2):n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 83.54 | 20.63 | 9 | 47.54 | 0.02 | 11 | 1.09 | 4 | 0.90 |  | FALSE | FALSE |
| png | lipid | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + seasons + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 2):n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 82.07 | 19.15 | 9 | 46.07 | 0.05 | 11 | 2.56 | 4 | 0.63 |  | FALSE | FALSE |
| png | lipid | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 2) + seasons + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 2):n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 83.82 | 20.90 | 9 | 47.81 | 0.02 | 11 | 0.82 | 4 | 0.94 |  | FALSE | FALSE |
| ecuador | nacl | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons | 79.37 | 0.00 | 3 | 72.11 | 1.00 | 20 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| ecuador | nacl | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 80.42 | 1.05 | 5 | 66.89 | 0.07 | 18 | 5.22 | 2 | 0.07 |  | TRUE | TRUE |
| ecuador | nacl | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 85.47 | 6.10 | 5 | 71.94 | 0.00 | 18 | 0.16 | 2 | 0.92 |  | FALSE | FALSE |
| ecuador | nacl | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 80.19 | 0.82 | 5 | 66.66 | 0.07 | 18 | 5.44 | 2 | 0.07 |  | TRUE | FALSE |
| png | nacl | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons | 73.90 | 0.00 | 3 | 66.40 | 1.00 | 17 | 0.00 | 0 | 1.00 |  | TRUE | FALSE |
| png | nacl | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_generalistic\_prop + seasons:n\_occ\_generalistic\_prop | 75.64 | 1.74 | 5 | 61.36 | 0.08 | 15 | 5.05 | 2 | 0.08 |  | TRUE | TRUE |
| png | nacl | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_herbivorous\_trophobiotic\_prop + seasons:n\_occ\_herbivorous\_trophobiotic\_prop | 77.99 | 4.09 | 5 | 63.70 | 0.04 | 15 | 2.70 | 2 | 0.26 |  | FALSE | FALSE |
| png | nacl | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ seasons + n\_occ\_predator\_scavenger\_prop + seasons:n\_occ\_predator\_scavenger\_prop | 76.64 | 2.73 | 5 | 62.35 | 0.06 | 15 | 4.05 | 2 | 0.13 |  | FALSE | FALSE |
| tanzania | nacl | null | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) | 32.80 | 0.00 | 3 | 22.80 | 1.00 | 7 | 0.00 | 0 | 1.00 |  | TRUE | TRUE |
| tanzania | nacl | g | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_generalistic\_prop + poly(elevation\_mean, 1):n\_occ\_generalistic\_prop | 46.48 | 13.69 | 5 | 21.48 | 0.06 | 5 | 1.31 | 2 | 0.52 |  | FALSE | FALSE |
| tanzania | nacl | ht | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_herbivorous\_trophobiotic\_prop + poly(elevation\_mean, 1):n\_occ\_herbivorous\_trophobiotic\_prop | 47.63 | 14.84 | 5 | 22.63 | 0.01 | 5 | 0.16 | 2 | 0.92 |  | FALSE | FALSE |
| tanzania | nacl | ps | cbind(n\_occurecnes, max\_occurecnes - n\_occurecnes) ~ poly(elevation\_mean, 1) + n\_occ\_predator\_scavenger\_prop + poly(elevation\_mean, 1):n\_occ\_predator\_scavenger\_prop | 44.66 | 11.87 | 5 | 19.66 | 0.14 | 5 | 3.13 | 2 | 0.21 |  | FALSE | FALSE |