| regions | sel\_bait\_type | mod\_name | model\_df | AICc | delta | weight | best\_model | r2 | mod\_r2\_partial | aov\_df | aov\_aic | aov\_bic | aov\_log\_lik | aov\_deviance | aov\_chisq | aov\_chi\_df | aov\_pr\_chisq | aov\_signif |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ecuador | amino\_acid | null | 2 | 113.11 | 10.02 | 0.01 | FALSE | 0.00 | NA | 2 | 112.51 | 114.78 | -54.26 | 108.51 | 0.00 | 0 | 1.00 |  |
| ecuador | amino\_acid | elevation | 4 | 113.60 | 10.51 | 0.00 | FALSE | 0.18 | NA | 4 | 111.38 | 115.92 | -51.69 | 103.38 | 5.14 | 2 | 0.08 |  |
| ecuador | amino\_acid | season | 3 | 110.50 | 7.41 | 0.02 | FALSE | 0.00 | NA | 3 | 109.24 | 112.64 | -51.62 | 103.24 | 5.28 | 1 | 0.02 | \* |
| ecuador | amino\_acid | elevation + season | 5 | 112.15 | 9.06 | 0.01 | FALSE | 0.19 | NA | 5 | 108.62 | 114.30 | -49.31 | 98.62 | 9.89 | 3 | 0.02 | \* |
| ecuador | amino\_acid | elevation \* season | 7 | 103.09 | 0.00 | 0.95 | TRUE | 0.00 | NA | 7 | 95.63 | 103.57 | -40.81 | 81.63 | 26.89 | 5 | 0.00 | \*\*\* |
| ecuador | cho | null | 2 | 164.11 | 0.00 | 0.46 | TRUE | 0.00 | NA | 2 | 163.51 | 165.78 | -79.75 | 159.51 | 0.00 | 0 | 1.00 |  |
| ecuador | cho | elevation | 4 | 168.01 | 3.90 | 0.06 | FALSE | 0.13 | NA | 4 | 165.79 | 170.33 | -78.89 | 157.79 | 1.72 | 2 | 0.42 |  |
| ecuador | cho | season | 3 | 164.22 | 0.12 | 0.43 | FALSE | 0.12 | NA | 3 | 162.96 | 166.37 | -78.48 | 156.96 | 2.54 | 1 | 0.11 |  |
| ecuador | cho | elevation + season | 5 | 168.51 | 4.41 | 0.05 | FALSE | 0.02 | NA | 5 | 164.98 | 170.66 | -77.49 | 154.98 | 4.52 | 3 | 0.21 |  |
| ecuador | cho | elevation \* season | 7 | 175.69 | 11.58 | 0.00 | FALSE | 0.02 | NA | 7 | 168.22 | 176.17 | -77.11 | 154.22 | 5.29 | 5 | 0.38 |  |
| ecuador | cho\_amino\_acid | null | 2 | 169.65 | 0.00 | 0.59 | TRUE | 0.00 | NA | 2 | 169.05 | 171.32 | -82.52 | 165.05 | 0.00 | 0 | 1.00 |  |
| ecuador | cho\_amino\_acid | elevation | 4 | 174.70 | 5.06 | 0.05 | FALSE | 0.00 | NA | 4 | 172.48 | 177.02 | -82.24 | 164.48 | 0.57 | 2 | 0.75 |  |
| ecuador | cho\_amino\_acid | season | 3 | 170.74 | 1.10 | 0.34 | FALSE | 0.00 | NA | 3 | 169.48 | 172.89 | -81.74 | 163.48 | 1.56 | 1 | 0.21 |  |
| ecuador | cho\_amino\_acid | elevation + season | 5 | 176.60 | 6.96 | 0.02 | FALSE | 0.00 | NA | 5 | 173.07 | 178.75 | -81.54 | 163.07 | 1.97 | 3 | 0.58 |  |
| ecuador | cho\_amino\_acid | elevation \* season | 7 | 184.52 | 14.88 | 0.00 | FALSE | 0.00 | NA | 7 | 177.06 | 185.01 | -81.53 | 163.06 | 1.99 | 5 | 0.85 |  |
| ecuador | h2o | null | 2 | 81.73 | 0.00 | 0.67 | TRUE | 0.00 | NA | 2 | 81.13 | 83.40 | -38.57 | 77.13 | 0.00 | 0 | 1.00 |  |
| ecuador | h2o | elevation | 4 | 86.62 | 4.89 | 0.06 | FALSE | 0.00 | NA | 4 | 84.40 | 88.94 | -38.20 | 76.40 | 0.73 | 2 | 0.69 |  |
| ecuador | h2o | season | 3 | 83.66 | 1.93 | 0.26 | FALSE | 0.00 | NA | 3 | 82.39 | 85.80 | -38.20 | 76.39 | 0.74 | 1 | 0.39 |  |
| ecuador | h2o | elevation + season | 5 | 89.02 | 7.29 | 0.02 | FALSE | 0.00 | NA | 5 | 85.49 | 91.17 | -37.74 | 75.49 | 1.64 | 3 | 0.65 |  |
| ecuador | h2o | elevation \* season | 7 | 96.18 | 14.45 | 0.00 | FALSE | 0.00 | NA | 7 | 88.71 | 96.66 | -37.36 | 74.71 | 2.42 | 5 | 0.79 |  |
| ecuador | lipid | null | 2 | 91.69 | 8.13 | 0.01 | FALSE | 0.00 | NA | 2 | 91.09 | 93.36 | -43.55 | 87.09 | 0.00 | 0 | 1.00 |  |
| ecuador | lipid | elevation | 4 | 83.56 | 0.00 | 0.80 | TRUE | 0.01 | NA | 4 | 81.34 | 85.88 | -36.67 | 73.34 | 13.75 | 2 | 0.00 | \*\* |
| ecuador | lipid | season | 3 | 94.30 | 10.74 | 0.00 | FALSE | 0.00 | NA | 3 | 93.04 | 96.44 | -43.52 | 87.04 | 0.05 | 1 | 0.82 |  |
| ecuador | lipid | elevation + season | 5 | 86.57 | 3.01 | 0.18 | FALSE | 0.01 | NA | 5 | 83.04 | 88.72 | -36.52 | 73.04 | 14.05 | 3 | 0.00 | \*\* |
| ecuador | lipid | elevation \* season | 7 | 94.13 | 10.57 | 0.00 | FALSE | 0.01 | NA | 7 | 86.66 | 94.61 | -36.33 | 72.66 | 14.43 | 5 | 0.01 | \* |
| ecuador | nacl | null | 2 | 152.00 | 1.13 | 0.29 | TRUE | 0.00 | NA | 2 | 151.40 | 153.67 | -73.70 | 147.40 | 0.00 | 0 | 1.00 |  |
| ecuador | nacl | elevation | 4 | 155.78 | 4.92 | 0.04 | FALSE | 0.17 | NA | 4 | 153.56 | 158.10 | -72.78 | 145.56 | 1.84 | 2 | 0.40 |  |
| ecuador | nacl | season | 3 | 150.86 | 0.00 | 0.51 | FALSE | 0.06 | NA | 3 | 149.60 | 153.01 | -71.80 | 143.60 | 3.80 | 1 | 0.05 |  |
| ecuador | nacl | elevation + season | 5 | 154.80 | 3.93 | 0.07 | FALSE | 0.25 | NA | 5 | 151.27 | 156.94 | -70.63 | 141.27 | 6.13 | 3 | 0.11 |  |
| ecuador | nacl | elevation \* season | 7 | 154.43 | 3.57 | 0.09 | FALSE | 0.22 | NA | 7 | 146.96 | 154.91 | -66.48 | 132.96 | 14.44 | 5 | 0.01 | \* |
| png | amino\_acid | null | 2 | 127.65 | 0.50 | 0.42 | TRUE | 0.00 | NA | 2 | 126.95 | 128.94 | -61.47 | 122.95 | 0.00 | 0 | 1.00 |  |
| png | amino\_acid | elevation | 4 | 133.45 | 6.30 | 0.02 | FALSE | 0.00 | NA | 4 | 130.78 | 134.77 | -61.39 | 122.78 | 0.17 | 2 | 0.92 |  |
| png | amino\_acid | season | 3 | 127.15 | 0.00 | 0.54 | FALSE | 0.02 | NA | 3 | 125.65 | 128.64 | -59.83 | 119.65 | 3.30 | 1 | 0.07 |  |
| png | amino\_acid | elevation + season | 5 | 133.85 | 6.70 | 0.02 | FALSE | 0.02 | NA | 5 | 129.56 | 134.54 | -59.78 | 119.56 | 3.39 | 3 | 0.34 |  |
| png | amino\_acid | elevation \* season | 7 | 142.75 | 15.60 | 0.00 | FALSE | 0.01 | NA | 7 | 133.42 | 140.39 | -59.71 | 119.42 | 3.53 | 5 | 0.62 |  |
| png | cho | null | 2 | 164.43 | 0.00 | 0.66 | TRUE | 0.00 | NA | 2 | 163.72 | 165.71 | -79.86 | 159.72 | 0.00 | 0 | 1.00 |  |
| png | cho | elevation | 4 | 167.66 | 3.23 | 0.13 | FALSE | 0.11 | NA | 4 | 164.99 | 168.98 | -78.50 | 156.99 | 2.73 | 2 | 0.26 |  |
| png | cho | season | 3 | 167.00 | 2.57 | 0.18 | FALSE | 0.00 | NA | 3 | 165.50 | 168.48 | -79.75 | 159.50 | 0.23 | 1 | 0.63 |  |
| png | cho | elevation + season | 5 | 170.93 | 6.50 | 0.03 | FALSE | 0.12 | NA | 5 | 166.64 | 171.62 | -78.32 | 156.64 | 3.08 | 3 | 0.38 |  |
| png | cho | elevation \* season | 7 | 179.16 | 14.73 | 0.00 | FALSE | 0.20 | NA | 7 | 169.83 | 176.80 | -77.92 | 155.83 | 3.89 | 5 | 0.56 |  |
| png | cho\_amino\_acid | null | 2 | 157.12 | 0.00 | 0.67 | TRUE | 0.00 | NA | 2 | 156.41 | 158.40 | -76.21 | 152.41 | 0.00 | 0 | 1.00 |  |
| png | cho\_amino\_acid | elevation | 4 | 162.98 | 5.87 | 0.04 | FALSE | 0.01 | NA | 4 | 160.32 | 164.30 | -76.16 | 152.32 | 0.09 | 2 | 0.95 |  |
| png | cho\_amino\_acid | season | 3 | 158.78 | 1.67 | 0.29 | FALSE | 0.00 | NA | 3 | 157.28 | 160.27 | -75.64 | 151.28 | 1.13 | 1 | 0.29 |  |
| png | cho\_amino\_acid | elevation + season | 5 | 165.44 | 8.32 | 0.01 | FALSE | 0.01 | NA | 5 | 161.15 | 166.13 | -75.58 | 151.15 | 1.26 | 3 | 0.74 |  |
| png | cho\_amino\_acid | elevation \* season | 7 | 174.17 | 17.05 | 0.00 | FALSE | 0.03 | NA | 7 | 164.83 | 171.80 | -75.42 | 150.83 | 1.58 | 5 | 0.90 |  |
| png | h2o | null | 2 | 113.27 | 0.00 | 0.74 | TRUE | 0.00 | NA | 2 | 112.56 | 114.55 | -54.28 | 108.56 | 0.00 | 0 | 1.00 |  |
| png | h2o | elevation | 4 | 118.75 | 5.49 | 0.05 | FALSE | 0.03 | NA | 4 | 116.09 | 120.07 | -54.04 | 108.09 | 0.47 | 2 | 0.79 |  |
| png | h2o | season | 3 | 115.89 | 2.63 | 0.20 | FALSE | 0.01 | NA | 3 | 114.39 | 117.38 | -54.20 | 108.39 | 0.17 | 1 | 0.68 |  |
| png | h2o | elevation + season | 5 | 122.25 | 8.99 | 0.01 | FALSE | 0.03 | NA | 5 | 117.97 | 122.94 | -53.98 | 107.97 | 0.59 | 3 | 0.90 |  |
| png | h2o | elevation \* season | 7 | 129.55 | 16.29 | 0.00 | FALSE | 0.02 | NA | 7 | 120.22 | 127.19 | -53.11 | 106.22 | 2.34 | 5 | 0.80 |  |
| png | lipid | null | 2 | 71.25 | 1.72 | NA | FALSE | 0.00 | NA | 2 | 70.54 | 72.53 | -33.27 | 66.54 | 0.00 | 0 | 1.00 |  |
| png | lipid | elevation | 4 | 77.06 | 7.54 | NA | FALSE | 0.00 | NA | 4 | 74.40 | 78.38 | -33.20 | 66.40 | 0.15 | 2 | 0.93 |  |
| png | lipid | season | 3 | 69.53 | 0.00 | NA | TRUE | 0.00 | NA | 3 | 68.03 | 71.01 | -31.01 | 62.03 | 4.52 | 1 | 0.03 | \* |
| png | lipid | elevation + season | 5 | 75.95 | 6.42 | NA | FALSE | 0.01 | NA | 5 | 71.66 | 76.64 | -30.83 | 61.66 | 4.88 | 3 | 0.18 |  |
| png | lipid | elevation \* season | 7 | NA | NA | NA | FALSE | 0.01 | NA | 7 | NA | NA | NA | NA | NA | 5 | NA |  |
| png | nacl | null | 2 | 153.91 | 0.00 | 0.75 | TRUE | 0.00 | NA | 2 | 153.21 | 155.20 | -74.60 | 149.21 | 0.00 | 0 | 1.00 |  |
| png | nacl | elevation | 4 | 159.49 | 5.58 | 0.05 | FALSE | 0.00 | NA | 4 | 156.83 | 160.81 | -74.41 | 148.83 | 0.38 | 2 | 0.83 |  |
| png | nacl | season | 3 | 156.60 | 2.69 | 0.20 | FALSE | 0.01 | NA | 3 | 155.10 | 158.09 | -74.55 | 149.10 | 0.11 | 1 | 0.74 |  |
| png | nacl | elevation + season | 5 | 162.96 | 9.05 | 0.01 | FALSE | 0.02 | NA | 5 | 158.68 | 163.66 | -74.34 | 148.68 | 0.53 | 3 | 0.91 |  |
| png | nacl | elevation \* season | 7 | 170.58 | 16.67 | 0.00 | FALSE | 0.02 | NA | 7 | 161.25 | 168.22 | -73.62 | 147.25 | 1.96 | 5 | 0.85 |  |
| tanzania | amino\_acid | null | 2 | 69.08 | 0.00 | NA | TRUE | 0.00 | NA | 2 | 67.36 | 67.97 | -31.68 | 63.36 | 0.00 | 0 | 1.00 |  |
| tanzania | amino\_acid | elevation | 4 | 72.80 | 3.72 | NA | FALSE | 0.18 | NA | 4 | 64.80 | 66.01 | -28.40 | 56.80 | 6.56 | 2 | 0.04 | \* |
| tanzania | amino\_acid | season | 3 | 73.05 | 3.97 | NA | FALSE | 0.00 | NA | 3 | 69.05 | 69.96 | -31.53 | 63.05 | 0.31 | 1 | 0.58 |  |
| tanzania | amino\_acid | elevation + season | 5 | 77.24 | 8.16 | NA | FALSE | 0.29 | NA | 5 | 62.24 | 63.75 | -26.12 | 52.24 | 11.13 | 3 | 0.01 | \* |
| tanzania | amino\_acid | elevation \* season | 7 | NA | NA | NA | NA | 0.21 | NA | 7 | NA | NA | NA | NA | NA | 5 | NA |  |
| tanzania | cho | null | 2 | 74.19 | 0.00 | 0.85 | TRUE | 0.00 | NA | 2 | 72.47 | 73.08 | -34.24 | 68.47 | 0.00 | 0 | 1.00 |  |
| tanzania | cho | elevation | 4 | 81.34 | 7.15 | 0.02 | FALSE | 0.18 | NA | 4 | 73.34 | 74.55 | -32.67 | 65.34 | 3.13 | 2 | 0.21 |  |
| tanzania | cho | season | 3 | 77.92 | 3.73 | 0.13 | FALSE | 0.00 | NA | 3 | 73.92 | 74.83 | -33.96 | 67.92 | 0.55 | 1 | 0.46 |  |
| tanzania | cho | elevation + season | 5 | 89.83 | 15.64 | 0.00 | FALSE | 0.21 | NA | 5 | 74.83 | 76.34 | -32.42 | 64.83 | 3.64 | 3 | 0.30 |  |
| tanzania | cho | elevation \* season | 7 | 126.82 | 52.63 | 0.00 | FALSE | 0.51 | NA | 7 | 70.82 | 72.94 | -28.41 | 56.82 | 11.66 | 5 | 0.04 | \* |
| tanzania | cho\_amino\_acid | null | 2 | 90.36 | 0.00 | 0.78 | TRUE | 0.00 | NA | 2 | 88.65 | 89.25 | -42.32 | 84.65 | 0.00 | 0 | 1.00 |  |
| tanzania | cho\_amino\_acid | elevation | 4 | 97.45 | 7.08 | 0.02 | FALSE | 0.12 | NA | 4 | 89.45 | 90.66 | -40.72 | 81.45 | 3.20 | 2 | 0.20 |  |
| tanzania | cho\_amino\_acid | season | 3 | 93.13 | 2.77 | 0.20 | FALSE | 0.00 | NA | 3 | 89.13 | 90.04 | -41.57 | 83.13 | 1.52 | 1 | 0.22 |  |
| tanzania | cho\_amino\_acid | elevation + season | 5 | 104.01 | 13.65 | 0.00 | FALSE | 0.05 | NA | 5 | 89.01 | 90.53 | -39.51 | 79.01 | 5.64 | 3 | 0.13 |  |
| tanzania | cho\_amino\_acid | elevation \* season | 7 | 148.86 | 58.50 | 0.00 | FALSE | 0.06 | NA | 7 | 92.86 | 94.98 | -39.43 | 78.86 | 5.79 | 5 | 0.33 |  |
| tanzania | h2o | null | 2 | 72.04 | 0.00 | NA | TRUE | 0.00 | NA | 2 | 70.33 | 70.93 | -33.16 | 66.33 | 0.00 | 0 | 1.00 |  |
| tanzania | h2o | elevation | 4 | 75.60 | 3.56 | NA | FALSE | 0.04 | NA | 4 | 67.60 | 68.81 | -29.80 | 59.60 | 6.73 | 2 | 0.03 | \* |
| tanzania | h2o | season | 3 | 76.31 | 4.28 | NA | FALSE | 0.00 | NA | 3 | 72.31 | 73.22 | -33.16 | 66.31 | 0.01 | 1 | 0.92 |  |
| tanzania | h2o | elevation + season | 5 | 77.88 | 5.84 | NA | FALSE | 0.48 | NA | 5 | 62.88 | 64.39 | -26.44 | 52.88 | 13.45 | 3 | 0.00 | \*\* |
| tanzania | h2o | elevation \* season | 7 | NA | NA | NA | NA | 0.60 | NA | 7 | NA | NA | NA | NA | NA | 5 | NA |  |
| tanzania | lipid | null | 2 | 69.09 | 0.00 | 0.87 | TRUE | 0.00 | NA | 2 | 67.37 | 67.98 | -31.69 | 63.37 | 0.00 | 0 | 1.00 |  |
| tanzania | lipid | elevation | 4 | 76.71 | 7.62 | 0.02 | FALSE | 0.01 | NA | 4 | 68.71 | 69.92 | -30.35 | 60.71 | 2.66 | 2 | 0.26 |  |
| tanzania | lipid | season | 3 | 73.24 | 4.15 | 0.11 | FALSE | 0.00 | NA | 3 | 69.24 | 70.15 | -31.62 | 63.24 | 0.13 | 1 | 0.72 |  |
| tanzania | lipid | elevation + season | 5 | 85.43 | 16.34 | 0.00 | FALSE | 0.02 | NA | 5 | 70.43 | 71.94 | -30.22 | 60.43 | 2.94 | 3 | 0.40 |  |
| tanzania | lipid | elevation \* season | 7 | 122.28 | 53.20 | 0.00 | FALSE | 0.49 | NA | 7 | 66.28 | 68.40 | -26.14 | 52.28 | 11.09 | 5 | 0.05 | \* |
| tanzania | nacl | null | 2 | 75.68 | 0.00 | 0.85 | TRUE | 0.00 | NA | 2 | 73.97 | 74.57 | -34.98 | 69.97 | 0.00 | 0 | 1.00 |  |
| tanzania | nacl | elevation | 4 | 83.42 | 7.74 | 0.02 | FALSE | 0.13 | NA | 4 | 75.42 | 76.63 | -33.71 | 67.42 | 2.55 | 2 | 0.28 |  |
| tanzania | nacl | season | 3 | 79.48 | 3.80 | 0.13 | FALSE | 0.03 | NA | 3 | 75.48 | 76.39 | -34.74 | 69.48 | 0.49 | 1 | 0.48 |  |
| tanzania | nacl | elevation + season | 5 | 88.83 | 13.15 | 0.00 | FALSE | 0.17 | NA | 5 | 73.83 | 75.34 | -31.91 | 63.83 | 6.14 | 3 | 0.11 |  |
| tanzania | nacl | elevation \* season | 7 | 131.94 | 56.25 | 0.00 | FALSE | 0.21 | NA | 7 | 75.94 | 78.05 | -30.97 | 61.94 | 8.03 | 5 | 0.15 |  |