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| **Model** | **Test Statistic (H)** | **P-value** |
| Abundance x Distance from equator | 341.38 | <0.0005 |
| Abundance x Elevation | 264.68 | <0.0005 |
| Abundance x Precipitation | 275.23 | <0.0005 |
| Richness x Distance from equator | 298.86 | <0.0005 |
| Richness x Elevation | 248.29 | <0.0005 |
| Richness x Precipitation | 259.39 | <0.0005 |