Table S1. Complete model set examining the effects of predators and resources (leaf litter, arthropods) on occupancy and detection probability of *Craugastor bransfordii* and *Oophaga pumilio* in forest habitat at La Selva, Costa Rica. Arthropods were modeled specific to the favored prey of each vertebrate species: *C. bransfordii* – Acari, Araneae, Coleoptera, and Isopoda; *O. pumilio* – Acari and Formicidae (Lieberman, 1986; Whitfield & Donnelly, 2006).

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| Model | Occupancy parameters | Detection parameters |
| 1 | ΨA+ΨBA | *p*A+*p*B |
| 2 | ΨA+ΨBA | *p*A+*p*B+*r*BA |
| 3 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*r*Ba |
| 4 | ΨA+ΨBA+ΨBa | *p*A+*p*B |
| 5 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA |
| 6 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*r*Ba |
| 7 | ΨA+ΨBA+ΨLL | *p*A+*p*B |
| 8 | ΨA+ΨBA+ΨLL | *p*A+*p*B+*r*BA |
| 9 | ΨA+ΨBA+ΨLL | *p*A+*p*B+*r*BA+*r*Ba |
| 10 | ΨA+ΨBA | *p*A+*p*B+*p*LL |
| 11 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*p*LL |
| 12 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*r*Ba+*p*LL |
| 13 | ΨA+ΨBA+ΨLL | *p*A+*p*B+*p*LL |
| 14 | ΨA+ΨBA+ΨLL | *p*A+*p*B+*r*BA+*p*LL |
| 15 | ΨA+ΨBA+ΨLL | *p*A+*p*B+*r*BA+*r*Ba+*p*LL |
| 16 | ΨA+ΨBA+ΨBa+ΨLL | *p*A+*p*B |
| 17 | ΨA+ΨBA+ΨBa+ΨLL | *p*A+*p*B+*r*BA |
| 18 | ΨA+ΨBA+ΨBa+ΨLL | *p*A+*p*B+*r*BA+*r*Ba |
| 19 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*p*LL |
| 20 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*p*LL |
| 21 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*r*Ba+*p*LL |
| 22 | ΨA+ΨBA+ΨBa+ΨLL | *p*A+*p*B+*p*LL |
| 23 | ΨA+ΨBA+ΨBa+ΨLL | *p*A+*p*B+*r*BA+*p*LL |
| 24 | ΨA+ΨBA+ΨBa+ΨLL | *p*A+*p*B+*r*BA+*r*Ba+*p*LL |
| 25 | ΨA+ΨBA+ΨArthropods | *p*A+*p*B |
| 26 | ΨA+ΨBA+ΨArthropods | *p*A+*p*B+*r*BA |
| 27 | ΨA+ΨBA+ΨArthropods | *p*A+*p*B+*r*BA+*r*Ba |
| 28 | ΨA+ΨBA | *p*A+*p*B+*p*Arthropods |
| 29 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*p*Arthropods |
| 30 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*r*Ba+*p*Arthropods |
| 31 | ΨA+ΨBA+ΨArthropods | *p*A+*p*B+*p*Arthropods |
| 32 | ΨA+ΨBA+ΨArthropods | *p*A+*p*B+*r*BA+*p*Arthropods |
| 33 | ΨA+ΨBA+ΨArthropods | *p*A+*p*B+*r*BA+*r*Ba+*p*Arthropods |
| 34 | ΨA+ΨBA+ΨBa+ΨArthropods | *p*A+*p*B |
| 35 | ΨA+ΨBA+ΨBa+ΨArthropods | *p*A+*p*B+*r*BA |
| 36 | ΨA+ΨBA+ΨBa+ΨArthropods | *p*A+*p*B+*r*BA+*r*Ba |
| 37 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*p*Arthropods |
| 38 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*p*Arthropods |
| 39 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*r*Ba+*p*Arthropods |
| 40 | ΨA+ΨBA+ΨBa+ΨArthropods | *p*A+*p*B+*p*Arthropods |
| 41 | ΨA+ΨBA+ΨBa+ΨArthropods | *p*A+*p*B+*r*BA+*p*Arthropods |
| 42 | ΨA+ΨBA+ΨBa+ΨArthropods | *p*A+*p*B+*r*BA+*r*Ba+*p*Arthropods |
| 43 | ΨA+ΨBA+ΨSeason | *p*A+*p*B |
| 44 | ΨA+ΨBA+ΨSeason | *p*A+*p*B+*r*BA |
| 45 | ΨA+ΨBA+ΨSeason | *p*A+*p*B+*r*BA+*r*Ba |
| 46 | ΨA+ΨBA | *p*A+*p*B+*p*Season |
| 47 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*p*Season |
| 48 | ΨA+ΨBA | *p*A+*p*B+*r*BA+*r*Ba+*p*Season |
| 49 | ΨA+ΨBA+ΨSeason | *p*A+*p*B+*p*Season |
| 50 | ΨA+ΨBA+ΨSeason | *p*A+*p*B+*r*BA+*p*Season |
| 51 | ΨA+ΨBA+ΨSeason | *p*A+*p*B+*r*BA+*r*Ba+*p*Season |
| 52 | ΨA+ΨBA+ΨBa+ΨSeason | *p*A+*p*B |
| 53 | ΨA+ΨBA+ΨBa+ΨSeason | *p*A+*p*B+*r*BA |
| 54 | ΨA+ΨBA+ΨBa+ΨSeason | *p*A+*p*B+*r*BA+*r*Ba |
| 55 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*p*Season |
| 56 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*p*Season |
| 57 | ΨA+ΨBA+ΨBa | *p*A+*p*B+*r*BA+*r*Ba+*p*Season |
| 58 | ΨA+ΨBA+ΨBa+ΨSeason | *p*A+*p*B+*p*Season |
| 59 | ΨA+ΨBA+ΨBa+ΨSeason | *p*A+*p*B+*r*BA+*p*Season |
| 60 | ΨA+ΨBA+ΨBa+ΨSeason | *p*A+*p*B+*r*BA+*r*Ba+*p*Season |
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