Supplementary material

**Table 1** Information used to create threat factor scores that may affect the survival of snakes in the Paraíba Atlantic Forest. Abbreviations are: Distribution breadth-DB; Habitat breadth-HB (BN = Brejos Nordestinos, Fl = Closed forest, Tb = Tabuleiro, Rt = Restinga, Mg = Mangrove); Endemicity-E; Rarity in the Paraíba Atlantic Forest-RR; Dietary breadth-DT (abn = amphisbaenian, amp = amphibian, ann = annelids, art = arthropods, bi = birds, cro = crocodylians, fi = fish, Mo = mollusks, li = lizard, mam = mammals, sn=snake; Habitat use and activity period-HT (Di=Diurnal, No=Nocturnal; SAB = semi-arboreal, AB = arboreal, TE = terrestrial, AQ = aquatic, CR = cryptozoic, FS=Fossorial);

Direct anthropogenic effects on species conservation status-AE (A= Consumption as food, M=medicinal, MR= magic/religious, P=Pets, O= ornamental or decorative, C= conflict, Rk= road killing); Body size-BS; Litter size-LS; Reproduction mode-RM (Vi= viviparous, Ov= oviparous); Frequency of reproduction-FR. The numbers in brackets represent the reference number from which the information was taken.

|  | **Distribution** | | | | **Ecological data** | | | **Life-history data** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family/*Species*** | **DB (ha)** | **HB** | **E (km²)** | **RR** | **DT** | **HT** | **AE** | **BS (cm)** | **LS** | **RM** | **FR** |
| **Boidae** |  |  |  |  |  |  |  |  |  |  |  |
| *Boa constrictor* | 306239 | BN, Fl, Tb, Rt | <10% | 32 | mam (47.3%), li (36.8%), bi (15%) [1] | No, SAB, TE | A, M, MR, P, O, C, Rk | 206 | 18-60 [39,40,12] | Vi | seasonal [39] |
| *Corallus hortulana* | 1270 | Fl, Tb | <10% | 3 | mam (57%), bi (38.75%), li (2.5%), amp (1.25%) [1] | No, AB | M, C | 77.5 | 3-24 [39,40] | Vi | seasonal [39] |
| *Epicrates assisi* | 583276 | BN, Fl, Tb | <10% | 144 | mam (85.7%), li (14.2%) | No, TE | M, P, C, Rk | 158 | 7-14 [39] | Vi | seasonal [39] |
| **Colubridae** |  |  |  |  |  |  |  |  |  |  |  |
| *Chironius exoletus* | 235331 | BN, Fl, Tb | <10% | 19 | amp (100%) [2] | Di, TE | no effect | 115.2 | 4-12 [41,42] | Ov | seasonal [60] |
| *Chironius flavolineatus* | 449265 | BN, Fl, Tb | <10% | 60 | amp (100%) [2] | Di, AB | no effect | 128 | 3-8 [41,43] | Ov | seasonal [61] |
| *Dendrophidion atlantica* | 1058 | Fl | <10% | 1 | ~ (*D*. *dendrophis*) amp (100%) [3] | Di, TE | no effect | 67 | 3 | Ov | ~ (*D. dendrophis*) aseasonal [3] |
| *Drymarchon corais* | 28389 | Fl, Tb | <10% | 11 | amp (27.2%), abn (3%) li (15.1%), sn (24.2%), bi (18.2%), mam (12.1%) [4] | Di, TE | C, Rk | 172 | 3-15 [4] | Ov | aseasonal [4] |
| *Drymoluber dichrous* | 198353 | BN, Fl, Tb | <10% | 19 | li (73%), amp (26%) [5] | Di, TE | no effect | 93.5 | 2-6 [40,5] | Ov | aseasonal [62] |
| *Leptophis ahaetulla* | 213954 | Fl, BN | <10% | 37 | amp (92%) li (7.5%) [6] | Di, TE | M, C | 122.1 | 3-12 [8,12] | Ov | aseasonal [62] |
| *Palusophis bifossatus* | 73919 | Fl, BN | <10% | 8 | amp (79.5%), mam (9.7%) li (2.4%) [7] | Di, TE | no effect | 152 | 4-24 [44] | Ov | seasonal [63] |
| *Oxybelis aeneus* | 324137 | BN, Fl, Tb | <10% | 32 | li (93%), Amp (7.14%) [8] | Di, AB | C, Rk | 205.5 | 4-9 [40,8,12] | Ov | seasonal [64] |
| *Spilotes sulphureus* | 26240 | Fl | <10% | 19 | mam(100%) [9] | Di, TE/SAB | Rk | 245 | 11-15 [40,45] | Ov | aseasonal [5] |
| *Spilotes pullatus* | 345968 | BN, Fl, Tb | <10% | 22 | mam [86%], bi [14%] [10] | Di, TE/SAB | C, M, MR, Rk | 238.5 | 5-12 [40,46] | Ov | sazonal [60,65] |
| *Tantilla melanocephala* | 482170 | BN, Fl, Tb, Rt | <10% | 140 | art (100%) | FS | C | 36 | 1-3 [40,8] | Ov | aseasonal |
| **Dipsadidae** |  |  |  |  |  |  |  |  |  |  |  |
| *Apostolepis longicaudata* | 327 | Fl | <10% | 8 | sn (100%) [11] | FS | no effect | 35.2 | 2 | Ov | *~* (*A. assimilis*) aseasonal |
| *Apostolepis cearensis* | 102731 | Fl, Tb | <10% | 38 | sn (100%) [11] | FS | no effect | 53.9 | ~ (*A. longicaudata*) 2 | Ov | *~* (*A. assimilis*) aseasonal |
| *Boiruna sertaneja* | 249175 | Tb | <10% | 4 | sn[60.9%], li [30.4%], mam [8.6%] [12,13] | No, TE | C, Rk | 192 | 4-14 [12,13] | Ov | *~* (*B. maculata*)aseasonal [66] |
| *Caaeteboia gaeli* | 1511 | Fl | 12.19% | 2 | amp (100%) [11] | Di, TE | no effect | 41.1 | ~ (*Echinanthera occipitalis*) <5 [47] | Ov | *~* (*E. undulata*)seasonal [67] |
| *Erythrolamprus almadensis* | 26528 | Fl, Tb | <10% | 12 | amp (100%) [2] | Di, TE/AQ | no effect | 49.9 | 5 | Ov | *~* (*E. miliaris*) aseasonal [36] |
| *Erythrolamprus miliaris* | 607 | BN | <10% | 1 | amp (76%), fi (24%) [14] | No, TE/AQ | no effect | 101.5 [36] | 1-30 [36] | Ov | aseasonal [36] |
| *Erythrolamprus poecilogyrus* | 244470 | BN, Fl, Tb, Mg | <10% | 39 | amp (98.5%), (1.4%) [15] | Di, TE | Rk | 72.3 | 3-17[8,12] | Ov | aseasonal [68] |
| *Erythrolamprus taeniogaster* | 111037 | Fl, Tb, Rt | <10% | 28 | amp (60%), fi (40%) [2, 16] | Di, TE/AQ | no effect | 75.5 | 7-10 [16] | Ov | *~ E. miliaris* aseasonal [36] |
| *Erythrolamprus viridis* | 177143 | BN | <10% | 8 | amp (95.8%), li (4.1%) [8,12] | Di, TE | C | 48.5 | 2-7 [8,12] | Ov | *~* (*E. miliaris*) aseasonal [36] |
| *Helicops angulatus* | 375060 | Fl, Mg, Rt | <10% | 213 | fi (75.6%), amp (24%) | No, AQ | no effect | 96 | 2-20 [this work,40,5] | Ov | aseasonal |
| *Hydrodynastes gigas* | 123232 | Fl, Rt | <10% | 17 | amp (29.1%), fi (25%), sn (25%), mam (20.8%) [17] | Di, AQ | no effect | 195.6 | 14-42 [40, 48] | Ov | seasonal [69] |
| *Imantodes cenchoa* | 32620 | Fl, Tb | <10% | 19 | li (98%), amp (1.9%) [5, 18] | No, AB | Rk | 120.5 | 1-7 [40,5,49,18] | Ov | aseasonal [60, 49] |
| *Lygophis dilepis* | 237592 | BN, Fl | <10% | 13 | amp (100%) [8] | Di, TE | Rk | 48.2 | 4-6 [8] | Ov | aseasonal [12] |
| *Oxyrhopus guibei* | 226783 | BN, Fl, Tb | <10% | 17 | mam (86.1%), li (13.8%) [19, 20] | No, TE | no effect | 67.5 | 3-20 [50] | Ov | aseasonal [50] |
| *Oxyrhopus petolarius* | 314319 | BN, Fl, Tb | <10% | 29 | li (35%), mam (30%), bi (25%), amp (5%) [21] | No, TE | Rk | 110.8 | 2-12 [13,51] | Ov | aseasonal |
| *Oxyrhopus trigeminus* | 602569 | BN, Fl, Tb, Rt | <10% | 201 | li (63.8%), mam (22.2%), bi (17%) [8,12, 22] | No, TE | M, MR, C, Rk | 90 | 6-9 [8,12] | Ov | aseasonal |
| *Philodryas nattereri* | 523973 | BN, Fl, Tb | <10% | 73 | li (70%), mam (19.3%), amp (3.2%), sn (3.2%), bi (3.2%) [23] | Di, TE/SAB | MR, C, Rk | 150.5 | 4-13 [8,12] | Ov | *~* (*P. patagoniensis*) seasonal [70] |
| *Philodryas olfersii* | 561809 | BN, Fl, Tb, Mg | <10% | 104 | amp (52%), li (4.3%), bi (19%), mam (24%) [24] | Di, TE/SAB | M, MR, C, Rk | 143 | 1-16 [8,12, 52] | Ov | seasonal [71] |
| *Pseudablabes patagoniensis* | 216098 | Fl, Tb, Rt | <10% | 68 | Amp (38.7%), li (23%), mam (16%), bi (10.3%), sn (5.1%) [24] | Di, TE | Rk | 121.5 | 3-19 [52] | Ov | seasonal [70] |
| *Phimophis guerini* | 200778 | Fl, Tb, Rt | <10% | 12 | li (92%) mam (8.3%) [13] | No, TE | Rk | 81.3 | 3-7 [13] | Ov | **~** (*P. nigra*) aseasonal [53] |
| *Pseudoboa nigra* | 460953 | BN, Fl, Tb | <10% | 52 | li (86%), mam (5%), sn (2%) [21] | No, TE | C, Rk | 130.6 | 3-24 [13, 53] | Ov | aseasonal [53] |
| *Psomophis joberti* | 67862 | Fl | <10% | 14 | amp (50%), li (50%) [2, 25] | Di, TE | no effect | 42.4 | 7 [8, 54] | Ov | seasonal |
| *Sibon nebulatus* | 25999 | Fl, Tb | <10% | 16 | mo (100%) [26] | No, AB | Rk | 70.5 | 5 [56] | Ov | *~* (*S. sanniola*) seasonal [72] |
| *Dipsas neuwiedi* | 243645 | BN, Tb | <10% | 10 | mo (100%) [11] | No, TE | Rk | 44 | 4-12 [49] | Ov | seasonal [60, 49] |
| *Dipsas mikani* | 555118 | BN, Fl, Tb | <10% | 77 | mo (100%) [11] | No, TE | Rk | 48.5 | 3-10 [49] | Ov | seasonal [49] |
| *Siphlophis compressus* | 3378 | Tb | <10% | 4 | li (96%), sn (4%) [21] | No, AB | Rk | 70.1 | 3-12 [40,13,5] | Ov | seasonal [73] |
| *Dibernardia affinis* | 81017 | BN, Fl, Tb | <10% | 9 | li (33.3%), amp (33.3%), abn (16.6%), mam (16.6%) [27,28,29, 30] | CR | no effect | 37.7 | 5-7 [55] | Ov | seasonal [30] |
| *Adelphostigma occipitalis* | 525613 | BN, Fl, Tb | <10% | 53 | li (83%), amp (8.3%), abn (8.3%) [31, 30] | CR | no effect | 49.2 | 2 | Ov | seasonal [30] |
| *Thamnodynastes hypoconia* | 607 | BN | <10% | 2 | amp (96%), li (4%) [34] | No, TE/AB | no effect | 55.61 [37] | 4-13[34] | Vi | seasonal [34] |
| *Thamnodynastes pallidus* | 67769 | Fl, Tb | <10% | 106 | amp (100%) [12] | No, TE/AB | Rk | 56.9 | 3-6 [57,58] | Vi | *~* (*T. hypoconia*) seasonal[34] |
| *Xenodon merremii* | 422464 | BN, Fl, Tb | <10% | 105 | amp (100%) [8,12] | Di, TE | MR, Rk | 93 | 4-30[12] | Ov | seasonal [74] |
| *Xenopholis undulatus* | 607 | BN | <10% | 2 | amp (100%) [16,32] | No, TE | no effect | 19 [38] | 3 [59] | Ov | ~ (*X. Scalaris*) seasonal [75] |
| **Elapidae** |  |  |  |  |  |  |  |  |  |  |  |
| *Micrurus ibiboboca* | 547979 | BN, Fl, Tb | <10% | 191 | abn (58.3%), sna (33.3%), li (8.3%) [8,12] | CR | M, C, Rk | 135 | 9-14 | Ov | seasonal [76] |
| *Micrurus potyguara* | 274384 | Fl, Tb | 71% | 22 | ~ (*M*. *ibiboboca*) abn (58.3%), sna (33.3%), li (8.3%) [8,12] | CR | Rk | 83.7 | ~ (*M. ibiboboca*) 9-14 | Ov | seasonal [76] |
| **Leptotyphlopidae** |  |  |  |  |  |  |  |  |  |  |  |
| *Epictia borapeliotes* | 108512 | Fl, Rt | <10% | 16 | art (100%) [73] | FS | no effect | 19.8 | ~ (*Leptotyphlos koppesi*) ~10-15 [47] | Ov | ~ (*Liotyphlops beui***)** seasonal [77] |
| **Typhlopidae** |  |  |  |  |  |  |  |  |  |  |  |
| *Amerotyphlops arenensis* | 607 | BN | 32% | 33 | ~ (*A. brongersmianus*) art (100%) [33] | FS | no effect | 25 | 7-8 | Ov | ~ (*A. brongersmianus*) seasonal [33] |
| *Amerotyphlops brongersmianus* | 108334 | Fl, Tb | <10% | 84 | art [33] | FS | no effect | 38.3 | 4-5 [33] | Ov | seasonal [33] |
| *Amerotyphlops paucisquamus* | 36951 | Fl, Tb | <10% | 241 | ~ (*A. brongersmianus*) art (100%) [33] | FS | no effect | 19.8 | 4 | Ov | *~* (*A. brongersmianus*) seasonal [33] |
| **Viperidae** |  |  |  |  |  |  |  |  |  |  |  |
| *Bothrops leucurus* | 506520 | Fl, Tb, Mg | <10% | 119 | amp (33%), li (24%), sn (9%), bi(2%), mam (18%) | No, TE | C | 169 | 6-22 | Vi | seasonal |
| *Crotalus durissus* | 46449 | Rt | <10% | 12 | mam (100%) [12, 2, 25] | No, TE | M, MR, O, C | 130.5 | 21-31 [12] | Vi | seasonal [78] |
| *Lachesis muta* | 26003 | Fl | <10% | 4 | mam (100%) [16, 5] | No, TE | A, M, C | 202.5 | 1-14 [5, 35] | Ov | seasonal [35] |

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