**Supplementary Material – Appendix S2**

**Running title:** Global patterns in Carnivora co-occurrence

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**Appendix S2:** Species detected on >3 occasions in each study area, with their corresponding species code (code), taxonomy at the family level (family), temporal activity pattern (activ), dietary habit (diet), social structure (soc), body size (size) and mean species weight in kilograms (weight).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Scientific name | Common name | Family1 | Activ2 | Diet3 | Soc4 | Size5 | Weight |
| **Argentina - Yungas** |  |  |  |  |  |  |  | |
| *Cerdocyon thous* | Crab-eating fox | Canidae | No | O | S | ML | 6.50 | |
| *Eira barbara* | Tayra | Mustelidae | Di | O | P | SM | 4.00 | |
| *Leopardus geoffroyi* | Geoffroy's cat | Felidae | No | C | S | SM | 3.50 | |
| *Leopardus wiedii* | Margay | Felidae | No | C | S | SM | 3.50 | |
| *Lycalopex gymnocercus* | Pampas fox | Canidae | Ca | O | S | ML | 5.20 | |
| *Nasua nasua* | South American coati | Procyonidae | Di | O | G | ML | 6.25 | |
| *Procyon cancrivorus* | Crab-eating raccoon | Procyonidae | No | O | S | ML | 9.50 | |
| *Puma concolor* | Puma (cougar) | Felidae | Ca | C | S | L | 50.0 | |
| **Argentina - Misiones** |  |  |  |  |  |  |  | |
| *Cerdocyon thous* | Crab-eating fox | Canidae | No | O | S | ML | 6.50 | |
| *Eira barbara* | Tayra | Mustelidae | Di | O | S | SM | 4.00 | |
| *Leopardus pardalis* | Ocelot | Felidae | No | C | S | ML | 12.5 | |
| *Leopardus guttulus* | Southern little spotted cat | Felidae | Ca | C | S | SM | 2.25 | |
| *Leopardus wiedii* | Margay | Felidae | No | C | S | SM | 3.50 | |
| *Nasua nasua* | South American coati | Procyonidae | Di | O | G | ML | 6.25 | |
| *Panthera onca* | Jaguar | Felidae | Ca | C | S | L | 66.5 | |
| *Procyon cancrivorus* | Crab-eating raccoon | Procyonidae | No | O | S | ML | 9.50 | |
| *Puma concolor* | Puma (cougar) | Felidae | Ca | C | S | L | 50.0 | |
| *Puma yagouaroundi* | Jaguarundi | Felidae | Di | C | S | ML | 5.50 | |
| **Belize** |  |  |  |  |  |  |  | |
| *Conepatus semistriatus* | Striped hog-nosed skunk | Other | No | O | S | SM | 2.45 | |
| *Eira barbara* | Tayra | Mustelidae | Di | O | S | SM | 4.00 | |
| *Leopardus pardalis* | Ocelot | Felidae | Cr | C | S | ML | 12.5 | |
| *Leopardus wiedii* | Margay | Felidae | No | C | S | SM | 3.50 | |
| *Mustela frenata* | Long-tailed weasel | Mustelidae | Di | O | S | S | 0.28 | |
| *Nasua narica* | White-nosed coati | Procyonidae | Di | O | S | SM | 4.60 | |
| *Panthera onca* | Jaguar | Felidae | Ca | C | S | L | 66.5 | |
| *Procyon lotor* | Common raccoon | Procyonidae | Ca | C | S | S | 0.70 | |
| *Puma concolor* | Puma (cougar) | Felidae | Ca | C | S | L | 50.0 | |
| *Puma yagouaroundi* | Jaguarundi | Felidae | Di | C | S | ML | 5.50 | |
| *Urocyon cinereoargenteus* | Gray fox | Canidae | Ca | O | S | SM | 4.00 | |
| **Botswana** |  |  |  |  |  |  |  | |
| *Canis adustus* | Side-striped jackal | Canidae | No | O | S | ML | 11.0 | |
| *Caracal caracal* | Caracal | Felidae | No | C | S | ML | 10.0 | |
| *Canis mesomelas* | Black-backed jackal | Canidae | No | O | S | ML | 8.00 | |
| *Civettictis civetta* | African civet | Viverridae | No | O | S | ML | 15.0 | |
| *Crocuta crocuta* | Spotted hyena | Other | No | C | G | L | 50.0 | |
| *Cynictis penicillata* | Yellow mongoose | Herpestidae | Di | C | S | S | 0.50 | |
| *Felis silvestris* | Wildcat | Felidae | No | C | S | SM | 5.00 | |
| *Galerella sanguinea* | Slender mongoose | Herpestidae | Di | C | S | S | 0.60 | |
| *Genetta genetta* | Common genet | Viverridae | No | C | S | S | 2.00 | |
| *Helogale parvula* | Dwarf mongoose | Herpestidae | Di | C | G | S | 0.35 | |
| *Ichneumia albicauda* | White-tailed mongoose | Herpestidae | No | C | S | SM | 3.50 | |
| *Ictonyx striatus* | Stiped polecat | Mustelidae | No | C | S | S | 1.00 | |
| *Leptailurus serval* | Serval | Felidae | No | C | S | ML | 14.0 | |
| *Lycaon pictus* | African wild dog | Canidae | Cr | C | G | L | 25.0 | |
| *Mellivora capensis* | Honey badger | Mustelidae | No | C | S | ML | 9.25 | |
| *Mungos mungos* | Banded mongoose | Herpestidae | Di | C | G | S | 1.50 | |
| *Otocyon megalotis* | Bat-eared fox | Canidae | No | I | S | SM | 4.00 | |
| *Panthera leo* | African lion | Felidae | No | C | G | L | 175.0 | |
| *Panthera pardus* | Common leopard | Felidae | No | C | S | L | 47.5 | |
| *Proteles cristata* | Aardwolf | Other | No | I | S | ML | 11.0 | |
| *Vulpes chama* | Cape fox | Canidae | No | O | S | SM | 4.30 | |
| **Canada** |  |  |  |  |  |  |  | |
| *Canis latrans* | Coyote | Canidae | Cr | C | S | ML | 13.5 | |
| *Canis lupus* | Gray wolf | Canidae | Cr | C | G | L | 30.0 | |
| *Gulo gulo* | Wolverine | Mustelidae | Ca | C | S | L | 17.0 | |
| *Lynx canadensis* | Canada lynx | Felidae | Cr | C | S | ML | 10.0 | |
| *Lynx rufus* | Bobcat | Felidae | Cr | C | S | ML | 8.50 | |
| *Martes americana* | American marten | Mustelidae | No | O | S | S | 1.50 | |
| *Pekania pennanti* | Fisher | Mustelidae | Di | O | S | SM | 3.25 | |
| *Puma concolor* | Cougar | Felidae | Ca | C | S | L | 50.0 | |
| *Taxidea taxus* | American badger | Mustelidae | No | O | S | ML | 8.00 | |
| *Ursus americanus* | American black bear | Other | Cr | O | S | L | 87.5 | |
| *Ursus arctos* | Grizzly bear | Other | Cr | O | S | L | 125 | |
| *Vulpes vulpes* | Red fox | Canidae | No | O | S | ML | 7.00 | |
| **Iran** |  |  |  |  |  |  |  | |
| *Acinonyx jubatus venaticus* | Asiatic cheetah | Felidae | Di | C | G | L | 30.0 | |
| *Canis aureus* | Golden jackal | Canidae | No | O | G | ML | 11.0 | |
| *Caracal caracal* | Caracal | Felidae | No | C | S | ML | 10.0 | |
| *Canis lupus* | Gray wolf | Canidae | Cr | C | G | L | 30.0 | |
| *Felis silvestris* | Wildcat | Felidae | No | C | S | SM | 5.00 | |
| *Hyaena hyaena* | Striped hyena | Other | No | O | G | L | 33.0 | |
| *Panthera pardus saxicolor* | Persian leopard | Felidae | No | C | S | L | 55.5 | |
| *Vulpes cana* | Blanford's fox | Canidae | No | C | S | S | 1.20 | |
| *Vulpes ruepellii* | Rüppel's fox | Canidae | No | O | S | SM | 3.20 | |
| *Vulpes vulpes* | Red fox | Canidae | No | O | S | ML | 7.00 | |
| **Madagascar** |  |  |  |  |  |  |  | |
| *Cryptoprocta ferox* | Fossa | Other | Ca | C | S | ML | 7.00 | |
| *Eupleres goudotii* | Falanouc | Other | Ca | C | S | SM | 3.00 | |
| *Fossa fossana* | Malagasy civet | Other | No | C | S | S | 1.70 | |
| *Galidia elegans* | Ring-tailed vontsira | Other | Di | C | S | S | 0.95 | |
| *Galidictis fasciata* | Broad-striped Malagasy vontsira | Other | No | C | S | S | 0.80 | |
| *Salanois concolor* | Brown-tailed vontsira | Other | Di | O | S | S | 0.65 | |
| **Nepal** |  |  |  |  |  |  |  | |
| *Canis aureus* | Golden jackal | Canidae | No | O | G | ML | 11.0 | |
| *Herpestes urva* | Crab-eating mongoose | Herpestidae | Di | C | S | S | 2.00 | |
| *Panthera pardus fusca* | Indian leopard | Felidae | Di | C | S | L | 100 | |
| *Panthera tigris tigris* | Bengal tiger | Felidae | No | C | S | L | 250 | |
| *Prionailurus bengalensis* | Leopard cat | Felidae | No | C | S | SM | 2.50 | |
| *Viverricula indica* | Small Indian civet | Viverridae | No | O | S | SM | 5.00 | |
| *Viverra zibetha* | Large Indian civet | Viverridae | No | O | S | ML | 7.00 | |
| **Norway** |  |  |  |  |  |  |  | |
| *Gulo gulo* | Wolverine | Mustelidae | Ca | C | S | L | 17.0 | |
| *Vulpes lagopus* | Arctic fox | Canidae | No | C | S | SM | 3.50 | |
| *Vulpes vulpes* | Red fox | Canidae | No | O | S | ML | 7.00 | |
| **Senegal** |  |  |  |  |  |  |  | |
| *Canis adustus* | Side-striped jackal | Canidae | No | O | S | ML | 11.0 | |
| *Civettictis civetta* | African civet | Viverridae | No | O | S | ML | 15.0 | |
| *Crocuta crocuta* | Spotted hyena | Other | No | C | G | L | 50.0 | |
| *Felis silvestris* | Wildcat | Felidae | No | C | S | SM | 5.00 | |
| *Genetta genetta* | Common genet | Viverridae | No | C | S | S | 2.00 | |
| *Herpestes ichneumon* | Large grey mongoose | Herpestidae | Di | O | G | SM | 3.00 | |
| *Ichneumia albicauda* | White-tailed mongoose | Herpestidae | No | C | S | SM | 3.50 | |
| *Leptailurus serval* | Serval | Felidae | No | C | S | ML | 14.0 | |
| *Lycaon pictus* | African wild dog | Canidae | Cr | C | G | L | 25.0 | |
| *Mellivora capensis* | Honey badger | Mustelidae | No | C | S | ML | 9.25 | |
| *Mungos mungos* | Banded mongoose | Herpestidae | Di | C | G | S | 1.50 | |
| *Panthera leo* | African lion | Felidae | No | C | G | L | 175.0 | |
| *Panthera pardus* | Common leopard | Felidae | No | C | S | L | 47.5 | |
| **South Africa** |  |  |  |  |  |  |  | |
| *Atilax paludinosus* | Water-marsh mongoose | Herpestidae | Cr | O | S | SM | 3.50 | |
| *Caracal caracal* | Caracal | Felidae | No | C | S | ML | 10.0 | |
| *Canis mesomelas* | Black-backed jackal | Canidae | No | O | S | ML | 8.00 | |
| *Felis silvestris* | Wildcat | Felidae | No | C | S | SM | 5.00 | |
| *Galerella pulverulenta* | Small grey mongoose | Herpestidae | Di | O | S | S | 0.75 | |
| *Genetta genetta* | Common genet | Viverridae | No | C | S | S | 2.00 | |
| *Genetta tigrina* | Large-spotted genet | Viverridae | No | C | S | S | 2.00 | |
| *Ictonyx striatus* | Striped polecat | Mustelidae | No | C | S | S | 1.00 | |
| *Mellivora capensis* | Honey badger | Mustelidae | No | C | S | ML | 9.25 | |
| *Otocyon megalotis* | Bat-eared fox | Canidae | No | I | S | SM | 4.00 | |
| *Panthera pardus* | Common leopard | Felidae | No | C | S | L | 47.5 | |
| *Poecilogale albinucha* | African striped weasel | Mustelidae | No | C | S | S | 0.30 | |
| *Proteles cristata* | Aardwolf | Other | No | I | S | ML | 11.0 | |
| *Vulpes chama* | Cape fox | Canidae | No | O | S | SM | 4.30 | |
| **Sumatra** |  |  |  |  |  |  |  | |
| *Cuon alpinus* | Dhole | Canidae | Cr | C | S | L | 12.0 | |
| *Felis marmorata* | Marbled cat | Felidae | Cr | C | S | SM | 3.50 | |
| *Felis temminckii* | Golden cat | Felidae | Cr | C | S | ML | 13.0 | |
| *Hemigalus derbyanus* | Banded palm civet | Viverridae | Ca | I | S | S | 2.00 | |
| *Helarctos malayanus* | Malayan sun bear | Other | Ca | O | S | L | 55.0 | |
| *Neofelis diardi* | Sunda clouded leopard | Felidae | Cr | C | S | L | 18.0 | |
| *Paradoxurus hermaphroditus* | Common palm civet | Viverridae | Ca | O | S | SM | 3.50 | |
| *Paguma larvata* | Masked palm civet | Viverridae | Ca | O | S | SM | 4.50 | |
| *Panthera tigris sumatrae* | Sumatran tiger | Felidae | Cr | C | S | L | 105 | |
| *Prionailurus bengalensis* | Leopard cat | Felidae | No | C | S | SM | 2.50 | |
| *Prionodon linsang* | Banded linsang | Procyonidae | Ca | C | S | S | 0.70 | |
| *Viverra tangalunga* | Malay civet | Viverridae | Ca | C | S | SM | 3.00 | |
| **United States** |  |  |  |  |  |  |  | |
| *Bassariscus astutus* | Ringtail cat | Procyonidae | No | O | S | S | 1.00 | |
| *Canis latrans* | Coyote | Canidae | Cr | C | S | ML | 13.5 | |
| *Lynx rufus* | Bobcat | Felidae | Cr | C | S | ML | 8.50 | |
| *Martes caruina* | Pacific marten | Mustelidae | No | O | S | S | 1.50 | |
| *Mephitis mephitis* | Striped skunk | Other | Cr | O | S | SM | 3.00 | |
| *Pekania pennanti* | Fisher | Mustelidae | Di | O | S | SM | 3.25 | |
| *Puma concolor* | Cougar | Felidae | Ca | C | S | L | 50.0 | |
| *Spilogale gracillis* | Western spotted skunk | Other | Cr | O | S | S | 0.45 | |
| *Ursus americanus* | American black bear | Other | Cr | O | S | L | 87.5 | |
| *Urocyon cinereoargenteus* | Gray fox | Canidae | Ca | O | S | SM | 4.00 | |

1 Family classification: Canidae (*n* = 15 species), Felidae (*n =* 24 species), Herpestidae (*n* = 9 species), Mustelidae (*n* = 9 species), Procyonidae (*n* = 5 species), Viverridae (*n* = 9 species), Other (*n* = 15 species)

2­ Temporal activity: cathemeral (Ca; *n =* 14 species), crepuscular (Cr; *n =* 15 species), diurnal (Di; *n =* 17 species), nocturnal (No; *n =* 40 species)

3 Primary diet: strict carnivore (C; *n* = 49 species), insectivore (I; *n* = 3 species), omnivore (O; *n* = 34 species)

4 Social structure: group (G; *n* = 10 species), pair or solitary (S; *n* = 76 species)

5 Body size: small (S; *n* = 21 species), small–medium (SM; *n* = 24 species), medium–large (ML; *n* = 22 species), large (L; *n* = 19 species)