**Table S1.** Dung beetles sampled. MOCE: Morro do Cerrito; VAFE: Val Feltrina, MFBR: Moreno Fortes Biological Reserve; TSPK: Turvo State Park.

|  |  |  |
| --- | --- | --- |
| **Species** | **Sites** | **Total** |
| **Central** |  | **Northwest** |
| **MOCE** | **VAFE** |   | **MFBR** | **TSPK** |
| *Ateuchus* aff. *apicatus* |  |  |  |  | 2 | 2 |
| *Ateuchus* aff. *carbonarius* | 2 |  |  |  |  | 2 |
| *Ateuchus* aff. *robustus* |  | 1 |  |  |  | 1 |
| *Canthidium* aff. *trinodosum* | 677 | 43 |   | 305 | 120 | 1145 |
| *Canthidium deplanatum* | 2 |  |  | 1 |  | 3 |
| *Canthidium dispar* | 3 | 2 |   | 11 | 2 | 18 |
| *Canthidium moestum* | 17 | 2 |  | 3 |  | 22 |
| *Canthon* aff. *luctuosus* | 11 |  |  | 4 |  | 15 |
| *Canthon angularis* | 2 | 2 |   | 8 | 15 | 27 |
| *Canthon conformis* |  | 2 |  |  |  | 2 |
| *Canthon laminatus* |  |  |  | 4 |  | 4 |
| *Canthon lividus* | 9 |  |  | 8 | 3 | 20 |
| *Canthon oliverioi* | 26 |  |  | 1 | 2 | 29 |
| *Canthon quinquemaculatus* | 5 |  |  |  | 167 | 172 |
| *Canthon rutilans cyanescens* | 324 | 25 |   | 21 | 36 | 406 |
| *Canthon seminitens* | 2 | 13 |   | 1 | 9 | 25 |
| *Chalcocopris hesperus* |  |  |  | 146 |  | 146 |
| *Coprophanaeus saphirinus*  | 22 | 2 |   | 18 | 7 | 49 |
| *Deltochilum brasiliense* | 15 |  |  | 75 | 26 | 116 |
| *Deltochilum furcatum* |  |  |  | 3 | 22 | 25 |
| *Deltochilum morbillosum* |  |  |  | 11 | 16 | 27 |
| *Deltochilum rubripenne* | 30 |  |  | 27 | 1 | 58 |
| *Deltochilum sculpturatum* |  | 1 |  |  |  | 1 |
| *Dichotomius* aff. *acuticornis* | 5 |  |  | 5 | 1 | 11 |
| *Dichotomius assifer* | 249 | 1 |   | 30 | 10 | 290 |
| *Dichotomius depressicolis* |  |  |  | 36 | 7 | 43 |
| *Dichotomius fissus* |  |  |  | 3 |  | 3 |
| *Dichotomius mormon* |  |  |  | 13 | 46 | 59 |
| *Dichotomius nisus* |  | 3 |  |  | 1 | 4 |
| *Dichotomius sericeus* | 5 | 4 |   | 6 | 71 | 86 |
| *Eurysternus aeneus* |  |  |  |  | 1 | 1 |
| *Eurysternus caribaeus* | 173 | 22 |   | 94 | 125 | 414 |
| *Eurysternus parallelus* | 55 | 4 |   | 19 | 742 | 820 |
| *Homocopris* sp. |  | 5 |  | 9 |  | 14 |
| *Ontherus azteca* | 29 | 9 |   | 21 | 8 | 67 |
| *Ontherus sulcator* | 1 | 3 |  |  |  | 4 |
| *Onthophagus catharinensis* | 292 |  |  |  | 377 | 669 |
| *Onthophagus tristis* | 214 | 2 |  |  | 80 | 296 |
| *Phanaeus splendidulus* |  | 1 |  |  |  | 1 |
| *Scybalocanthon nigriceps* |  |  |  | 420 | 1 | 421 |
| *Sulcophanaeus menelas* |  | 1 |  |  | 1 | 2 |
| *Trichillum* sp. |  |  |  |  | 2 | 2 |
| *Uroxys* aff. *dilaticollis* | 2 |  |  |  |  | 2 |
| *Uroxys* aff. *terminalis* | 6 |  |  | 2 |  | 8 |
| *Zonocopris gibbicollis* |  |  |  | 1 |  | 1 |
| **Abundance** | **2178** | **148** |   | **1306** | **1901** | **5533** |
| **Species richness** | **26** | **21** |   | **30** | **29** | **45** |
| **Sample coverage** | **0.999** | **0.967** |  | **0.997** | **0.997** |  |