**Table S1: Included species, conservation status and method employed to characterize their distributions (Abadala et al. 2012;**  
**Giraudo et al. 2012) :** EN: endangered; DD: Data Deficient; VU: Vulnerable; LC: Least concern; MCP Minimum convex polygon; SDM: species distribution model; RR: raw records.

|  |  |  |  |
| --- | --- | --- | --- |
| **Genera** | **Species** | **Status** | **Distribution** |
| *Ameivula* | *abalosi* | LC | SDM |
| *Aspronema* | *dorsivittata* | LC | SDM |
| *Aurivela* | *longicaudus* | LC | MCP |
| *Aurivela* | *teargoleavigata* | LC | SDM |
| *Boa* | *constrictor* | EN | SDM |
| *Boiruna* | *maculata* | LC | SDM |
| *Bothrops* | *alternatus* | LC | MCP |
| *Bothrops* | *ammodytoides* | LC | SDM |
| *Bothrops* | *diporus* | LC | SDM |
| *Cercosaura* | *parkeri* | LC | SDM |
| *Contomastix* | *leachei* | DD | RR |
| *Crotalus* | *durissus* | LC | SDM |
| *Epicrates* | *alvarezi* | EN | SDM |
| *Epictia* | *albipuncta* | LC | RR |
| *Epictia* | *striatula* | EN | RR |
| *Epictia* | *unguirostris* | NA | RR |
| *Erythrolamprus* | *albertguentheri* | LC | SDM |
| *Erythrolamprus* | *ceii* | LC | SDM |
| *Erythrolamprus* | *sagitifer* | LC | SDM |
| *Homonota* | *borelli* | LC | RR |
| *Homonota* | *fasciata* | LC | SDM |
| *Homonota* | *underwoodi* | LC | RR |
| *Kentropyx* | *lagartija* | DD | RR |
| *Leiosaurus* | *catamarsensis* | LC | SDM |
| *Leiosaurus* | *parone* | LC | RR |
| *Leptodeira* | *annulata* | LC | RR |
| *Leptophis* | *ahaetulla* | LC | SDM |
| *Liolaemus* | *abaucan* | LC | MCP |
| *Liolaemus* | *albiceps* | LC | RR |
| *Liolaemus* | *bitaeniatus* | LC | SDM |
| *Liolaemus* | *calchaqui* | LC | MCP |
| *Liolaemus* | *capillitas* | LC | RR |
| *Liolaemus* | *cazianiae* | VU | RR |
| *Liolaemus* | *chacoensis* | LC | SDM |
| *Liolaemus* | *chaltin* | LC | MCP |
| *Liolaemus* | *crepuscularis* | LC | RR |
| *Liolaemus* | *cuyanus* | LC | RR |
| *Liolaemus* | *dorbignyi* | VU | MCP |
| *Liolaemus* | *espinozai* | LC | SDM |
| *Liolaemus* | *griseus* | DD | MCP |
| *Liolaemus* | *halonastes* | VU | MCP |
| *Liolaemus* | *huacahuasicus* | VU | SDM |
| *Liolaemus* | *huayra* | VU | MCP |
| *Liolaemus* | *inti* | NA | MCP |
| *Liolaemus* | *irregularis* | LC | SDM |
| *Liolaemus* | *koslowski* | LC | SDM |
| *Liolaemus* | *laurenti* | IC | MCP |
| *Liolaemus* | *lavillai* | LC | SDM |
| *Liolaemus* | *montanus* | IC | MCP |
| *Liolaemus* | *multicolor* | LC | SDM |
| *Liolaemus* | *nigriceps* | DD | MCP |
| *Liolaemus* | *orientalis* | VU | SDM |
| *Liolaemus* | *orko* | VU | MCP |
| *Liolaemus* | *ornatus* | LC | SDM |
| *Liolaemus* | *pacha* | (DD) | MCP |
| *Liolaemus* | *pagaburoi* | LC | SDM |
| *Liolaemus* | *pipanaco* | (DD) | MCP |
| *Liolaemus* | *poecilochromus* | LC | MCP |
| *Liolaemus* | *porosus* | (DD) | MCP |
| *Liolaemus* | *pulcherrimus* | VU | MCP |
| *Liolaemus* | *puna* | LC | SDM |
| *Liolaemus* | *puritamensis* | LC | MCP |
| *Liolaemus* | *quilmes* | LC | SDM |
| *Liolaemus* | *ramirezae* | LC | RR |
| *Liolaemus* | *robertmertensi* | LC | SDM |
| *Liolaemus* | *salinicola* | LC | MCP |
| *Liolaemus* | *scapularis* | LC | SDM |
| *Liolaemus* | *scrocchii* | LC | SDM |
| *Liolaemus* | *tulkas* | LC | MCP |
| *Liolaemus* | *vulcanus* | LC | MCP |
| *Mastigodryas* | *bifossatus* | LC | RR |
| *Micrurus* | *pyrrhocryptus* | LC | SDM |
| *Notomabuya* | *frenata* | LC | SDM |
| *Ophiodes* | *intermedius* | LC | SDM |
| *Opipeuter* | *xestus* | DD | MCP |
| *Oxyrhopus* | *rhombifer* | LC | SDM |
| *Paraphimophis* | *rusticus* | LC | SDM |
| *Phalotris* | *sansebastiani* | DD | RR |
| *Philodryas* | *aestiva* | LC | RR |
| *Philodryas* | *baroni* | LC | SDM |
| *Philodryas* | *mattogrossensis* | LC | RR |
| *Philodryas* | *olfersii* | LC | MCP |
| *Philodryas* | *psammophidea* | LC | SDM |
| *Philodryas* | *trilineata* | LC | SDM |
| *Philodryas* | *varia* | LC | SDM |
| *Phimophis* | *vittatus* | DD | SDM |
| *Phyllopezus* | *pollicaris* | LC | RR |
| *Phymaturus* | *antofagastensis* | VU | MCP |
| *Phymaturus* | *laurenti* | VU | MCP |
| *Polychrus* | *acutirostris* | VU | RR |
| *Sibynomorphus* | *lavillai* | LC | SDM |
| *Sibynomorphus* | *turgidus* | LC | SDM |
| *Stenocercus* | *caducus* | DD | SDM |
| *Stenocercus* | *doellojuradoi* | VU | RR |
| *Stenocercus* | *marmoratus* | IC | RR |
| *Stenocercus* | *roseiventris* | DD | RR |
| *Tachymenis* | *peruviana* | LC | SDM |
| *Taeniophallus* | *occipitalis* | LC | SDM |
| *Teyus* | *Teyou* | LC | SDM |
| *Tropidurus* | *etheridgei* | LC | SDM |
| *Xenodon* | *pulcher* | LC | SDM |
| *Xenodon* | *semicinctus* | LC | SDM |