**Appendix S1 -** Values of the area under the curve (AUC) obtained for species distribution models, total inferred range area in km², percentage of habitat loss, IUCN status and presence (1) in Neotropical Hotspots (Myers *et al.*, 2003) for the 41 studied Neotropical pitvipers. IUCN status: NE - Not Evaluated; LC - Least Concern; and CR - Critically Endangered.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | AUC | Area (km²) | % Habitat Loss | IUCN status | Hotspots |
| *Bothrocophias andianus* | 0.98 | 164.832 | 9.44 | NE | 1 |
| *Bothrocophias campbelli* | 0.99 | 172.777 | 33.75 | NE | 1 |
| *Bothrocophias hyoprora* | 0.95 | 3.821.280 | 8 | NE | 0 |
| *Bothrocophias microphthalmus* | 0.97 | 931.918 | 15.35 | NE | 1 |
| *Bothrocophias myersi* | 0.99 | 156.557 | 34.08 | LC | 1 |
| *Bothrops alcatraz* | NA | 1,96 | 33.63 | CR | 1 |
| *Bothrops alternatus* | 0.96 | 2.415.980 | 26.22 | NE | 1 |
| *Bothrops ammodytoides* | 0.97 | 1.509.761 | 14.70 | NE | 0 |
| *Bothrops asper* | 0.98 | 1.232.493 | 18.15 | NE | 1 |
| *Bothrops atrox* | 0.94 | 6.249.435 | 8.98 | NE | 0 |
| *Bothrops barnetti* | 0.98 | 251.591 | 19.94 | NE | 1 |
| *Bothrops b. bilineatus* | 0.95 | 2.863.787 | 24.75 | NE | 1 |
| *Bothrops b. smaragdinus* | 0.94 | 2.581.771 | 4.76 | NE | 1 |
| *Bothrops brazili* | 0.91 | 5.094.521 | 5.73 | NE | 0 |
| *Bothrops caribbaeus* | NA | 539 | 33.63 | NE | 1 |
| *Bothrops chloromelas* | 0.98 | 279.450 | 11.07 | NE | 1 |
| *Bothrops colombiensis* | 0.95 | 103.212 | 20.34 | NE | 1 |
| *Bothrops cotiara* | 0.99 | 267.710 | 48.89 | NE | 1 |
| *Bothrops diporus* | 0.96 | 1.834.600 | 35.42 | NE | 1 |
| *Bothrops erythromelas* | 0.98 | 966.159 | 58.49 | LC | 0 |
| *Bothrops fonsecai* | 1 | 164.877 | 71.15 | NE | 1 |
| *Bothrops insularis* | NA | 0,43 | 26.05 | CR | 1 |
| *Bothrops isabelae* | 0.98 | 249.269 | 36.84 | NE | 0 |
| *Bothrops itapetiningae* | 0.99 | 499.319 | 75.19 | LC | 1 |
| *Bothrops jararaca* | 0.97 | 1.213.601 | 29.78 | NE | 1 |
| *Bothrops jararacussu* | 0.98 | 1.137.415 | 60.46 | LC | 1 |
| *Bothrops jonathani* | 0.94 | 467.805 | 20.36 | NE | 1 |
| *Bothrops lanceolatus* | NA | 1.100 | 33.63 | NE | 1 |
| *Bothrops leucurus* | 0.99 | 371.851 | 68.83 | NE | 1 |
| *Bothrops marajoensis* | 1 | 167.652 | 17.35 | NE | 0 |
| *Bothrops mattogrossensis* | 0.93 | 3.321.849 | 32.84 | NE | 1 |
| *Bothrops moojeni* | 0.97 | 2.416.344 | 25.56 | NE | 1 |
| *Bothrops neuwiedi* | 0.99 | 859.704 | 65.96 | NE | 1 |
| *Bothrops osbornei* | 0.99 | 99.073 | 31.23 | NE | 1 |
| *Bothrops pauloensis* | 0.98 | 1.494.463 | 58.10 | NE | 1 |
| *Bothrops pictus* | 0.98 | 89.083 | 3.21 | NE | 0 |
| *Bothrops pulcher* | 0.99 | 263.483 | 20.85 | NE | 1 |
| *Bothrops punctatus* | 0.98 | 189.550 | 30.16 | NE | 1 |
| *Bothrops sanctaecrucis* | 0.99 | 246.569 | 9.97 | NE | 1 |
| *Bothrops taeniatus* | 0.88 | 5248.006 | 10.58 | NE | 0 |
| *Bothrops venezuelensis* | 0.96 | 143.968 | 26.07 | NE | 1 |