**SUPPORTING INFORMATION**

**Journal of Biogeography**

**Biogeography of anurans and squamates in the Cerrado hotspot: coincident endemism patterns in the richest and most impacted savanna on the globe**

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**Appendix S2** Presence absence matrix for 216 Cerrado endemic anuran and squamate species. Latitude and longitude coordinates are given for each grid-cell centroid, after this table, with cells numbered from south to north, west to east (i.e. cell one is the first to the west at the southernmost row).

| Species | Presence-absences |
| --- | --- |
| *Adenomera martinezi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000 |
| *Adenomera saci* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000010000000000000000010000000000110010000000000000100000010110000001111100111000111000000010000110010 |
| *Adenomera sp.1* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000 |
| *Adenomera sp.2* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000001000001000100000000001000000000 |
| *Allobates aff. brunneus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000101000001000000000000100000 |
| *Allobates brunneus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000100000000000000000000000000000000000 |
| *Allobates goianus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Ameerega berohoka* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010100000000000000011000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Ameerega braccata* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Ameerega flavopicta* | 000000000000000000000000000000000000000000000000000100000000000000110000000001100100000001001000000000000100000000001011100000000000000001000000000110000000000010100000000000000000000000000000000100010000000000100 |
| *Ameerega picta* | 000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Ameiva aff. parecis* | 000000000000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Ameiva jacuba* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Ameiva parecis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000 |
| *Ameivula jalapensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000 |
| *Ameivula mumbuca* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000100000000000000000000000 |
| *Amphisbaena absaberi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena acrobeles* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000 |
| *Amphisbaena anaemariae* | 000000000000000000000000000000100000000000000000000000000000000000000000000001000000001000000000000000001000000000000011000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000 |
| *Amphisbaena bedai* | 000000000000000000000000000000000000000001000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena brevis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena carli* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena crisae* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000100000000001000000010000000000000000000000000000000000 |
| *Amphisbaena cuiabana* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000001010000000000010000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena kraoh* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100001000001000000000000000000 |
| *Amphisbaena leeseri* | 000000000000000000000000000000100000000001000000000000001000000000000100000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena maranhensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000 |
| *Amphisbaena mensae* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001100000000000001000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena miringoera* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000100 |
| *Amphisbaena neglecta* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena sanctaeritae* | 000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Amphisbaena saxosa* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000 |
| *Amphisbaena silvestrii* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000100000000000010010000000000000000110000000000100000000001001100000000100100000010000000000000000000000000000000000 |
| *Amphisbaena steindachneri* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000100000000000000000000000000100000000000010000000000000000000000000000000000000000000000 |
| *Amphisbaena talisiae* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Apostolepis albicolaris* | 000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000100000000000010000000000000011000000000000000000000000000110000000000000100000000000000000000000000000000000000000000000000 |
| *Apostolepis ammodites* | 000000000000000000000000000000000000000000000000000000000000000000010000000000100100000000010100000000000000100000010001000000000000100000100000000011110000000000101100010100000001110010001000000000000000000000000 |
| *Apostolepis flavotorquata* | 000000000000000000000001000000000000000000000000000000000000110000000000000000000000000000100000000000000000000000000011000000000010000000000000000110010000000000000100000000100010000000001000000000000000000000000 |
| *Apostolepis goiasensis* | 000000000000000000000000000000000001000000010100000000000000000000000000000001000000000010000000000000000000000000000001000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000 |
| *Apostolepis intermedia* | 000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Apostolepis lineata* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Apostolepis longicaudata* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000010010000000000000000 |
| *Apostolepis nelsonjorgei* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000011000001000000000000100000000000 |
| *Apostolepis polylepis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001100000000011011000100000110000 |
| *Apostolepis serrana* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000 |
| *Apostolepis sp. Brasilia* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Apostolepis sp. Carolina* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000 |
| *Apostolepis striata* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000 |
| *Apostolepis vittata* | 000000000000000000000000000000000000000000000000000000000000000000000110000000000000000000000000000000000000000000000000000000000010000000000000000000000000000100000000000000000000000000000000000000000000000000000 |
| *Atractus albuquerquei* | 000000000000000000000000000000000000000000000100000000000010001000000000010000000000001000000000000000000000000100000000000000010000000000000000000010000000000100100010000000001100000001000000000000000000000000010 |
| *Atractus spinalis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bachia bresslaui* | 000000000000001000000000000000100000000000000100000000001000000000000000001000000000111101000000011000000100000000000001000000000010000000100000000000100000000000000000000000000000000000000000000000000000000000000 |
| *Bachia cacerensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bachia didactyla* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000000000000000000000000000000000000000000000000 |
| *Bachia geralista* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000101000000000000000000000001000000000000000000000000000000000000000000000000 |
| *Bachia micromela* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000 |
| *Bachia oxyrhina* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000 |
| *Bachia psamophila* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000 |
| *Barycholos ternetzi* | 000000000000000000000000000000000000000000000000000000000000000011000000000001100000000111101000001101011100000000010011110000000000000100000000000011000000000001100000000110000000111000001000101000000011000110000 |
| *Bokermannohyla alvarengai* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000110000000000011000000000000010000000000000110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla ibitiguara* | 000000000000000000000000000000000000000000000000000100000000000001100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla nanuzae* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla napolii* | 000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla pseudopseudis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000011000000000000000000000000000110000000000000100000000000000000000000001000000000000000000000000 |
| *Bokermannohyla ravida* | 000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla sagarana* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla sapiranga* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000001000000000000011000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla saxicola* | 000000000000000000000000000000000000000000000000000000000000000000010000000000000100000000000011000000000000010000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bokermannohyla sazimai* | 000000000000000000000000000000000000000000000000000000000000000001000000000001110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops aff. mattogrossensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000100000000000000000000000001000 |
| *Bothrops aff. neuwiedi* | 000000000000010000000000000000000000000000000000000000000000000000011000000000000000000000000011000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops itapetiningae* | 000000000000000000000000000000000000000000000000000000000000000001000000010000100000000000000000000001011000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops lutzi* | 000001000010110000000111110000000001111100000000011100000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops marmoratus* | 000000000000000000000000000000000000000000000000000000001000000000000000000000000000000100000000000010000000000010000000000000010010000000000000000010000000000000000000000100000000000000001000000000000000000000000 |
| *Bothrops mattogrossensis* | 000000000000000000000000000000000000000000000000000000000000000100000000010011000000001100000000000000010000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops moojeni* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops neuwiedi* | 000010000011111000011111100000111111100000001011111000000100000111000001000011000000000000000000000000001000000000000001000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000 |
| *Bothrops pauloensis* | 001100010000101111111111001011111111100001111111111100111111111111000100010111100101001111101100101100011001111110010111110010110110110110101100100111010000000000101100011100000011000010010000010011000000000011000 |
| *Cercosaura schreibersii* | 000000000000000000000000000000000001000000000100000000000000000001000000000000000100001001000000000100000100000000010001000000000011000000000000000010000000000000000000010000000010000000000000000000000000000000000 |
| *Chiasmocleis albopunctata* | 000000000000000000101110000101100001000010000101100000001000000001010010010001000101001000100000100101111101010100010111100000010110100100000000100011010000000000110000000100000000110000001000101000000010001110000 |
| *Chiasmocleis centralis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000100000000000000000000000000000000000000000000000000 |
| *Coleodactylus brachystoma* | 000000000000000000000000000000000000000000000000000000001000000000000000000000000000011000000000000000000000000010000000000000000000010000000000000110100000000000110000000001000000000000000000000001000000000000000 |
| *Crossodactylus bokermanni* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000100000000000011000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Crossodactylus trachystomus* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000100000000000010000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Dendropsophus anataliasiasi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000001111000000000010100000000010010100000101000000000100000111000111000001010000110000 |
| *Dendropsophus araguaya* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000001100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Dendropsophus cerradensis* | 000000000000000000000000000000000000000000010000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Dendropsophus cruzi* | 000000000000000000000000000000000000000010000000000000000000000000000000010000000000001101000000000100110000000000011110000000000010000100000000101110000000000011100000000010000000001100111000001000000011000110000 |
| *Dendropsophus elianeae* | 000000000001100000000111100100000011100010000001000010011000011101010000100001000100001110000000000000000000000000001010100000000000000000000000000000000000000001100000000000000000000000000000000000000000000000000 |
| *Dendropsophus jimi* | 000000000001010100000111000000000011000110010000000000000000100001000000010001000000001110000000000000010100000000000011100000000000000001100000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Dendropsophus rhea* | 000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Dendropsophus tritaeniatus* | 000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000001000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Drymoluber brazili* | 000000000000001000000000000000001011100000000111111000001100011110010000000000000100001000000000000000010000010000000001000000010000000100000000000110000010001000101000000100000000000001110000000000000000000000000 |
| *Elachistocleis bumbameuboi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000 |
| *Elachistocleis matogrosso* | 000000000000000000000000000000000000000011000000000000001000000000000110000000000000100000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Enyalius aff. bilineatus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Epicrates crassus* | 011010011110111011111111100010111101100000101111111001111111111111010011000001001100000001111100000000010100111010010011111000000110100010001000000110100010101000100000010110000011010001111000000000000010000100000 |
| *Erythrolamprus frenatus* | 011100011000001001111010000011101111100001011111110100000100111110000000010000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Erythrolamprus maryellenae* | 000000000000000000000000000000000000000000000000000000000000000000111000010001100010001000000010000100000000010000000011000000000010000000000000000010000000000000000000000000010000000000000100000000000000000000000 |
| *Eupemphix nattereri* | 000000000000000000101110000111110111100011010111110010011110111111000000111101000000101111101000101100111101001010010111110000111110110001101011100001100000000000111100000000010000101000011000000000000010001110011 |
| *Eurolophosaurus nanuzae* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000110000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Gymnodactylus amarali* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001010000000000000000000000000000010000000000000000000000000010111110000000000110000010101010000111000001100011010000000000100010 |
| *Gymnodactylus guttulatus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Heterodactylus lundii* | 000000000000000000000000000000000000000000000000000000000000000001000000000000000100000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hoplocercus spinosus* | 000000000000000000000000000000000000000001010100000000001100000000000000000001000000101000000000001000110000001101010011000001000010100000000100000010000001001100100000010000000011010000001000000001100000000000000 |
| *Hydrodynastes melanogigas* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000001000000000000000000100000 |
| *Hylodes otavioi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hylodes sazimai* | 000000000000000000000001000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas botumirim* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas buriti* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000001010000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas cipoensis* | 000000000000000000000000000000000000000000000000000000000000000000010000000000000100000000000011000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas ericae* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas goianus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000011100000000000000010000000000001000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas jaguariaivensis* | 000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas lundii* | 000000000000000000001110000000000111100000000001100110000000001001011000010001100100001111101000000100111100110001000111100110000010000011000000000011000000000000100000000000000000000000000000000000000000000000000 |
| *Hypsiboas phaeopleura* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000010000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Hypsiboas stenocephalus* | 000000000000000000000000000000000000100000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Ischnocnema penaxavantinho* | 000000000000000000000000000000000000000000000000000000000000000000000000000001100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Kentropyx paulensis* | 000000000000100000000110100000000001000000000100100000000000000000000000000000000000011000000000000000000100000010000001000000000010010000100000000010000000000000000000000000000001000000000000000000000000000000000 |
| *Kentropyx sp.* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000 |
| *Kentropyx vanzoi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000010100000000101000000000010001100000001010000000000000000000000000000000000000000000 |
| *Leposternon cerradensis* | 000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Leposternon maximus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000100000000000000000000000000000000000000000000000000000000000000 |
| *Leptodactylus camaquara* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000110000000000011000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Leptodactylus cunicularius* | 000000000000000000000000000000000000100000000000000000000000000000010000000000000100000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Leptodactylus sertanejo* | 000000000000000000000000000000000000000010000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000010000000000000100000000000000001000000000000000000000000000000 |
| *Leptodactylus tapiti* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Liotyphlops schubarti* | 000000000000000000000000000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Lygophis paucidens* | 000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000100000000000000000011011000010010000000100000000010100000000000100000010000000010001000001000010001000000000000000 |
| *Lysapsus caraya* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000010000000000000000000000000000000000000000000000000000000000100000000100000000000 |
| *Manciola guaporicola* | 000000000000000000000000000000000001000000000000000000000000000011000000000000000000001000000000000000000100001100000001000000100010000000000100000000000000000000000000000100000010000000000011000000000000000000000 |
| *Micrablepharus atticolus* | 000000000000000000000100000000000001000000000100101000000000000000000000000000000000011001000000000100000100000001010011010000000010010000100000110010000010001000100011010000000011000000000000000000000000000000000 |
| *Micrurus brasiliensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000100001000000011110000000000100100010000110001000100000000000000000000000110000 |
| *Micrurus tricolor* | 000000000000000000000000001010000000000011000000000000011100000000000100000000000000000000000000100000000000001000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Mussurana quimi* | 000010000010010001000111110000110011110000000000010000000000001010100000010000000000001000000100000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Norops meridionalis* | 000000000000000000000100100000000000100010000000100000000000000000000100000000100000011001000000000100000100001111010011000000000010000000100001000010100011000000000001010100000010000000001000000001000000000000000 |
| *Odontophrynus cultripes* | 000000000000000000000100000000000001100000000000001001000000000001011000000100010000001000100000000100010000000000000011000000000000000000000000000001100000000000000000000000000000001000000000000000000000000000000 |
| *Odontophrynus monachus* | 000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Odontophrynus salvatori* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000100001000000000000011000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Oreobates heterodactylus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Oreobates remotus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000001000000000000000000000000000000000000000000000000 |
| *Osteocephallus aff. taurinus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000100000000000001000000000000000000000000000000000000000000000000000000 |
| *Phalotris concolor* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010010000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phalotris labiomaculatus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001100000000000000000110001 |
| *Phalotris lativittatus* | 000000000001000000100110000000011111100000000011011000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phalotris matogrossensis* | 010000000000000100100000000100110000000011000110000000001111010010000110000000000000000000000000000000000000001010000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phalotris multipunctatus* | 000000000000000000000000000001000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phalotris nasutus* | 000000000000000000000000000000000011000000001000000000001100001010000010000011010000001000000000000000000100000000100011000000010100100000000000010000000000000000000000000000001000000000100000000000000000000000000 |
| *Phasmahyla jandaia* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000100000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Philodryas livida* | 000000100000000000000101000000000011000000000000000000010100000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phyllomedusa araguari* | 000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phyllomedusa ayeaye* | 000000000000000000000000000000000000100000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phyllomedusa centralis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Phyllomedusa megacephala* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000011000000000000010000000000000010000000000000000000000000001000000000000000000000000000000000000000000000000000000000000 |
| *Phyllomedusa oreades* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000000000000000000010000000000000100000000000000000000000000000000000000000000000000 |
| *Physalaemus deimaticus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Physalaemus evangelistai* | 000000000000000000000000000000000000000000000000000000000000000000001000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Placosoma cipoense* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Pristimantis crepitans* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000110000000000000000110000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Pristimantis dundeei* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Pristimantis ventrigranulosus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000110000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys bagnoi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000100000000000000000000000000000000000000000000000000 |
| *Proceratophrys branti* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000010000000000000110000000001000000001000001000001000000000000000000 |
| *Proceratophrys carranca* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys cururu* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys dibernardoi* | 000000000000000000000000000000000000000000000000000000000000000000000000010000000000011010000000000100000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys goyana* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100010000000000000010000000000000000100000000000010000000000000110000000000000000100000000000000000000000000000000 |
| *Proceratophrys huntingtoni* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000010000000000001000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys moratoi* | 000000000000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys rotundipalpebra* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys strussmannae* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Proceratophrys vielliardi* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000100000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Pseudis tocantins* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000010000000000000000000000000010100000001010000000101000111000001000000100000110001 |
| *Psilophthalmus sp.* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Rhachidelus brazili* | 000100001101011001111111100010011111100000000111111000000100001110000000000000100100011000001000000000000000000000000111100000010010000000000000000000000000000000000000000000000000001000000000000000000000000000000 |
| *Rhachisaurus brachylepis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Rhinella cerradensis* | 000000000000000000000000000001000000000000000000000000000000000000000000000000000000001000100000001000000000000000000001000000000000000000000000000001110000000000000100000000000000000000000000000000100000000000000 |
| *Rhinella inopina* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000011000000000010000000000000000000000000000000000000 |
| *Rhinella ocellata* | 000000000000000000000000000000000000000000000000000000000000100000000000010001000000010010000000000000010000000000000000000000000010110000000000010010000100010000100000101111000010101100111000101100011010100110000 |
| *Rhinella scitula* | 000000100000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Rhinella veredas* | 000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000001000000000000000000000000000000100000000000010000000000000100000000000000000000000000000000000000100000000 |
| *Salvator duseni* | 000000000000001000000000000000000000000000000000000000000000000000000000000000000000001001000000000000000000000000000001000000000000000000100000000010100000000000000000000000000000000000000100000000000000000000000 |
| *Scinax cabralensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax canastrensis* | 000000000000000000000000000000000000000000000000000100000000000001100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax centralis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000011000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax constrictus* | 000000000000000000000000000000000000000000000000000000000000000000000010000000000000000001000000100000110000001000011110000000010000001000000010101100000000000011000000000000000000001000001000000000000011001110000 |
| *Scinax curicica* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000100000000000011000000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax lutzorum* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000 |
| *Scinax machadoi* | 000000000000000000000000000000000000000000000000000000000000000000001000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax maracaya* | 000000000000000000000000000000000000000000000000000100000000000001010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax pinima* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax pombali* | 000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax pusillus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax skaios* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011100000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000 |
| *Scinax tigrinus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011000000000000000001100000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Siagonodon acutirostris* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001100000000000000000000000000000 |
| *Simophis rhinostoma* | 100010000011111000001111110110100011111100111000111110100100011110011001000001100100101111111000000100010101000000000011000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Stenocercus quinarius* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111000000000100000000000000000000000000000000100000000000000000000000000000 |
| *Stenocercus sinesaccus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000100010000000000000000000000000010000000000000010000000010000000000010000000000000000000000000000000000000000000000 |
| *Tantilla boipiranga* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Thoropa megatympanum* | 000000000000000000000000000000000000000000000000000000000000000000011000000000000110000000000011000000000000010000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Trachycephalus mambaiensis* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000000000011000000000100000000000001000000000000000000000000000000000000000000000000 |
| *Trilepida brasiliensis* | 000000000000000000000000000000000000000000000000000000000000000000000010000000000001000000001100000000000000000001000000000000000010000000101000000000110000000000000000000000100000001000000100000001000000000100000 |
| *Trilepida fuliginosa* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000010000000000000100000000110000000000000001000000000000000000000000 |
| *Trilepida jani* | 000000000000000000000000000000000000000000000000000000000000000000010000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Trilepida koppesi* | 000000000000000000000000000000001001100000000000000000000100110000000000000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Tropidophis preciosus* | 000000000000000000000000000000000000000000000000000000000000000000010000000000000000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Tropidurus callathelys* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000 |
| *Tropidurus chromatops* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000100000000000000000000000000000000000000000000000000000000000000000000000 |
| *Tropidurus insulanus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000100011000000000000000000000 |
| *Tropidurus itambere* | 000000000010010000010111110000000011100110010101111000001000000011000000000001000000000101100110001100001000000010000011000000000110100000100000000010000000000000100000010100000000000000000000000000000000000000000 |
| *Tropidurus montanus* | 000000000000000000000000000000000000000000000000000000000000000000010000000000000110000000000110000000000001010000000000000000000000000000000000000000001000000000000000000000000000000000000000000000000000000000000 |
| *Tupinambis quadrilineatus* | 000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001001000000000000000001000100010100000001010000000100000000011000000000100101000000100000010000010001000000001001000000000000 |
| *Xenodon matogrossensis* | 000000000000000000000000001000000000000000000000000000011110000000000110000000000000100000000000000000000000001011000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000 |
| *Xenodon nattereri* | 000001000001111000000101000011011111100000000111111000000100001000000000000000000000101010101000000000000000000010000001000000001000000000000000000000000000100100000000000000000000000000000000010010000000000000000 |
| *Xenopholis undulatus* | 100000000000010000000000000001000000011100000100111111000000110010111000010101000000000011100000000000010000000000000001100000000010000000000000000010100000000000001000000000000000000000001000000000000000000000000 |

Centroid coordinates of each grid-cell used to make the presence-absence matrix, in decimal degrees.

| **cell number** | **lat** | **long** |
| --- | --- | --- |
| 1 | -25,032 | -56,944 |
| 2 | -25,032 | -55,944 |
| 3 | -25,032 | -54,944 |
| 4 | -25,032 | -53,944 |
| 5 | -25,032 | -49,944 |
| 6 | -25,032 | -48,944 |
| 7 | -24,032 | -55,944 |
| 8 | -24,032 | -53,944 |
| 9 | -24,032 | -52,944 |
| 10 | -24,032 | -51,944 |
| 11 | -24,032 | -49,944 |
| 12 | -24,032 | -48,944 |
| 13 | -24,032 | -47,944 |
| 14 | -24,032 | -46,944 |
| 15 | -23,032 | -55,944 |
| 16 | -23,032 | -54,944 |
| 17 | -23,032 | -53,944 |
| 18 | -23,032 | -52,944 |
| 19 | -23,032 | -51,944 |
| 20 | -23,032 | -50,944 |
| 21 | -23,032 | -49,944 |
| 22 | -23,032 | -48,944 |
| 23 | -23,032 | -47,944 |
| 24 | -23,032 | -46,944 |
| 25 | -23,032 | -45,944 |
| 26 | -23,032 | -44,944 |
| 27 | -22,032 | -57,944 |
| 28 | -22,032 | -56,944 |
| 29 | -22,032 | -55,944 |
| 30 | -22,032 | -54,944 |
| 31 | -22,032 | -52,944 |
| 32 | -22,032 | -51,944 |
| 33 | -22,032 | -50,944 |
| 34 | -22,032 | -49,944 |
| 35 | -22,032 | -48,944 |
| 36 | -22,032 | -47,944 |
| 37 | -22,032 | -46,944 |
| 38 | -22,032 | -45,944 |
| 39 | -22,032 | -44,944 |
| 40 | -22,032 | -43,944 |
| 41 | -21,032 | -56,944 |
| 42 | -21,032 | -55,944 |
| 43 | -21,032 | -54,944 |
| 44 | -21,032 | -53,944 |
| 45 | -21,032 | -52,944 |
| 46 | -21,032 | -51,944 |
| 47 | -21,032 | -50,944 |
| 48 | -21,032 | -49,944 |
| 49 | -21,032 | -48,944 |
| 50 | -21,032 | -47,944 |
| 51 | -21,032 | -46,944 |
| 52 | -21,032 | -45,944 |
| 53 | -21,032 | -44,944 |
| 54 | -21,032 | -43,944 |
| 55 | -21,032 | -42,944 |
| 56 | -20,032 | -56,944 |
| 57 | -20,032 | -55,944 |
| 58 | -20,032 | -54,944 |
| 59 | -20,032 | -53,944 |
| 60 | -20,032 | -52,944 |
| 61 | -20,032 | -51,944 |
| 62 | -20,032 | -50,944 |
| 63 | -20,032 | -49,944 |
| 64 | -20,032 | -48,944 |
| 65 | -20,032 | -47,944 |
| 66 | -20,032 | -46,944 |
| 67 | -20,032 | -45,944 |
| 68 | -20,032 | -43,944 |
| 69 | -20,032 | -42,944 |
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