**SUPPLEMENTARY MATERIAL**

Table S1. Age (i.e. time since land abandonment) and geographic coordinates of 15 regenerating stands of Caatinga studied in Catimbau National Park.

|  |  |  |  |
| --- | --- | --- | --- |
| Regeneration forest stand | Age  (years) | Latitude | Longitude |
| R1 | 4 | -8.55414 | -37.2568 |
| R2 | 6 | -8.50906 | -37.2598 |
| R3 | 7 | -8.56122 | -37.2362 |
| R4 | 10 | -8.49681 | -37.3004 |
| R5 | 12 | -8.46072 | -37.3057 |
| R6 | 17 | -8.56233 | -37.2577 |
| R7 | 18 | -8.55244 | -37.239 |
| R8 | 20 | -8.55183 | -37.2436 |
| R9 | 23 | -8.50575 | -37.2762 |
| R10 | 30 | -8.55581 | -37.233 |
| R11 | 37 | -8.50114 | -37.2889 |
| R12 | 40 | -8.50744 | -37.3141 |
| R13 | 45 | -8.52517 | -37.2497 |
| R14 | 50 | -8.52631 | -37.3108 |
| R15 | 70 | -8.46528 | -37.3166 |

Table S2. Vascular epiphyte species found on the palm *Syagrus* *coronata* and non-palm phorophytes in the Catimbau National Park, north-east Brazil. Phorophyte: S — *Syagrus* *coronata*, C — control phorophytes; Habitat type: cr – croplands, cp – cattle pastures; rf – regenerating forest; sc – shrubby Caatinta; of – old-growth forest.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Family/Species | Phorophyte-epiphyte relationship | Seed dispersal mode | Phorophyte | **Habitat type** |
| Amarantaceae |  |  |  |  |
| *Gomphrena vaga* Mart. | Facultative | Abiotic | S | **cp, rf, sc, of** |
| Amarilidaceae |  |  |  |  |
| *Amarili*s sp. | Facultative | - | S | **cp** |
| Araceae |  |  |  |  |
| *Anthurium affine* Schott | Facultative | Biotic | S | **sc, of** |
| *Anthurium petrophilum* K. Krause | Facultative | Biotic | S | **sc, of** |
| *Philodendron imbe* Schott ex Kunth | True epiphyte | Biotic | S | **of** |
| Arecaceae |  |  |  |  |
| *Syagrus coronata* (Mart.) Becc. | Accidental | Biotic | S | **cp, rf, sc, of** |
| Asteraceae |  |  |  |  |
| Asteraceae sp. | - | - | S | **cr, cp, rf, sc** |
| Bignoniaceae |  |  |  |  |
| Bignoniaceae sp. | - | - | S | **cr** |
| Bromeliaceae |  |  |  |  |
| *Aechmea leptantha (*Harms) Leme & J.A.Siqueira | True epiphyte | Abiotic | S | **rf** |
| *Billbergia porteana* Brongn. ex Beer | True epiphyte | Biotic | S/C | **rf, sc, of** |
| *Dyckia* sp. | Facultative | Abiotic | S | **rf, of** |
| *Encholirium spectabile* Mart. ex Schult. & Schult.f. | True epiphyte | Abiotic | S | **sc** |
| *Neoglaziovia variegate* (Arruda) Mez | Facultative | Biotic | S | **sc** |
| *Tillandsia catimbauensis* Leme, W.Till & J.A.Siqueira | True epiphyte | Abiotic | S/C | **rf** |
| *Tillandsia recurvata* (L.) L. | True epiphyte | Abiotic | S/C | **rf** |
| *Tillandsia* sp. | True epiphyte | Abiotic | S/C | **rf, sc** |
| Cactaceae |  |  |  |  |
| *Cereus jamacaru* DC. | Facultative | Biotic | S | **rf, sc** |
| *Melocactus bahiensis* (Britton & Rose) Luetzelb. | Facultative | Biotic | S | **cr** |
| *Pilosocereus chrysostele* (Vaupel) Byles & G.D.Rowley | Facultative | Biotic | S | **cp, rf, sc, of** |
| *Pilosocereus pachycladus* F. Ritter | Facultative | Biotic | S | **cr, cp, rf, sc, of** |
| *Pilosocereus tuberculatus (Werderm.)* Byles & G.D. Rowley | Facultative | Biotic | S | **rf,** |
| *Tacinga inamoena* (K.Schum.) N.P.Taylor & Stuppy | Facultative | Biotic | S | **cp, sc** |
| *Tacinga palmadora* (Britton & Rose) N.P.Taylor & Stuppy | Facultative | Biotic | S | **rf** |
| Euphorbiaceae |  |  |  |  |
| *Cnidoscolus* *urens* (L.) Arthur | Accidental | - | S | **cp, rf, sc, of** |
| *Croton* sp. 1 | Accidental | - | S | **rf** |
| *Croton* sp. 2 | Accidental | - | S | **rf** |
| *Croton* sp. 3 | Accidental | - | S | **rf** |
| Euforbiaceae sp. | - | - | S | **rf** |
| *Sebastiania* sp. | Accidental | Abiotic | S | **sc** |
| Commelinaceae |  |  |  |  |
| Commelinaceae sp. | - | - | S | **cr, rf, of** |
| Convolvulaceae |  |  |  |  |
| Convolvulaceae sp. | - | - | S | **rf** |
| Leguminosae |  |  |  |  |
| *Caesalpinia microphylla* G.Don | Accidental | Abiotic | S | **rf** |
| Leguminosae sp. | - | - | S | **cp, rf, sc, of** |
| *Mimosa ophthalmocentra* Benth. | Accidental | Abiotic | S | **cp, rf** |
| *Senna* *rizzini* H.S.Irwin & Barneby | Accidental | Abiotic | S | **cp, rf** |
| Moraceae |  |  |  |  |
| *Ficus dendrocida* Kunth | Hemiepiphyte | Biotic | S | **cp, rf, sc, of** |
| Malpighiaceae |  |  |  |  |
| Malpighiaceae sp. | - | - | S | **sc** |
| Malvaceae |  |  |  |  |
| Mavaceae sp. | - | - | S | **rf** |
| *Sida* sp | Accidental | - | S | **cr, cp** |
| Myrtaceae |  |  |  |  |
| Myrtaceae sp. | - | - | S | **rf** |
| Orchidaceae |  |  |  |  |
| *Catasetum* *purum* Nees & Sinning | True epiphyte | Abiotic | S | **cr, cp, rf, sc, of** |
| *Catasetum* *uncatum* Rolfe | True epiphyte | Abiotic | S | **cp** |
| *Cyrtopodium* sp. | True epiphyte | Abiotic | S | **sc, of** |
| *Vanilla* *palmarum* (Salzm. ex Lindl.) Lindl. | True epiphyte | Biotic/Abiotic | S | **cr, cp, rf, sc, of** |
| Passifloraceae |  |  |  |  |
| *Passiflora* sp. | Hemiepiphyte | Biotic | S | **sc** |
| Poaceae |  |  |  |  |
| Poaceae sp. | - | - | S | **cr, cp, rf, sc** |
| Polypodiaceae |  |  |  |  |
| *Microgramma* *squamulosa* (Kaulf.) de la Sota | True epiphyte | Abiotic | S | **cp, rf, sc** |
| *Phlebodium* *decumanum* (Willd.) J. Sm | True epiphyte | Abiotic | S | **rf, sc** |
| *Serpocaulon* sp*.* | -- | Abiotic | S | **sc, of** |
| Portulacaceae |  |  |  |  |
| *Ruprechtia* *laxiflora* Meins. | Accidental | Abiotic | S | **cp** |
| *Talinum* *paniculatum* (Jacq.) Gaertn. | Facultative | Abiotic | S | **cp, rf** |
| Rubiaceae |  |  |  |  |
| Rubiaceae sp. | - | - | S | **rf** |
| Sapindaceae |  |  |  |  |
| *Serjania* sp. | Accidental | Abiotic | S | **rf, sc** |
| Solanaceae |  |  |  |  |
| Solanaceae sp. | - | - | S | **rf** |
| Vitaceae |  |  |  |  |
| Vitaceae sp. | - | - | S | **cr** |
| Non indentified |  |  |  |  |
| Indet. 2 | - | - | S | **of** |
| Indet. 3 | - | - | S | **of** |
| Indet. 4 | - | - | S | **of** |
| Indet. 5 | - | - | S | **of** |
| Indet. 6 | - | - | S | **of** |