Floristic composition of the Montane Forest in the Almadina–Barro Preto axis, Southern Bahia, Brazil

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Abstract: The aim of this study is to survey the angiosperms of two montane forest remnants in the southern Bahia, Brazil: Corcovado (SCO) and Pedra Lascada (SPL). Both fragments are located in the municipality of Almadina and Barro Preto, respectively, and are 18 km distant from each other. We sampled 899 species of angiosperms distributed in 437 genera and 116 families. The SCO was the richest area with 678 species, distributed in 367 genera and 100 families. SPL showed 466 species in 269 genera and 88 families. The percentage of species identified was 85.8% and of this total, 37.7% are endemic to the Atlantic Forest, 11.2% are endemic to southern Bahia and northern Espírito Santo and 7% are disjunct between the Atlantic Forest and Amazon. The remaining percentages (44.3%) were of species widely distributed. The richest families in the two areas were Orchidaceae (10%), Rubiaceae (7%), Bromeliaceae (5.5%), Melastomataceae (4.2%) and Poaceae (4%). The richest genera were Psychotria (2%), Piper (1.8%), Ocotea (1.6%), Vriesea (1.5%) and Peperomia (1.4%). More than half of the recorded species showed non-arboreal habit, regarding life forms documented. That comes against the assertion that many authors in the tropical forests, where species richness in angiosperms is expected for non-woody species, especially in montane forests. Twelve species have been identified as new, but seven others already described from collections previously obtained in these two areas. Orchidaceae, Rubiaceae, Poaceae and Bromeliaceae showed significant richness in this study these families are commonly reported as the richest in other inventories in the Atlantic Forest in southern Bahia reinforcing their importance to the regional flora. The high levels of richness, endemism, and the growing numbers of new taxonomic discoveries from the SPL and SCO sites indicate the biological importance of these two forest remnants. The implementation of parks or other protected environmental reserves would be essential to the conservation of its species.

Keywords: Atlantic Forest, Biodiversity conservation, Floristic survey and Remnant forests.

Resumo: O presente estudo objetivou inventariar as angiospermas de dois remanescentes florestais no sul da Bahia, Brasil. Os remanescentes se encontram nas Serras do Corcovado (SCO) e da Pedra Lascada (SPL), situados nos municípios de Almadina e Barro Preto, respectivamente, e distantes 18 km um do outro. Foram registradas 899 espécies de angiospermas distribuídas em 437 géneros e 116 famílias. A SCO foi a área mais rica em espécies, com um total de 678 espécies distribuídas em 367 géneros e 100 famílias, enquanto a SPL apresentou 466 espécies em 269 géneros e 88 famílias. O percentual de espécies identificadas foi de 85,8%. Desse total, 37,7% são endêmicas da Floresta Atlântica e 11,2% são endêmicas do sul da Bahia e norte do Espírito Santo. A distribuição disjunta entre Florestas Atlântica e Amazônica foi constatada em 7% das espécies inventariadas. O percentual restante (44,3%) foi de espécies amplamente distribuídas no Brasil. As famílias mais ricas nas duas áreas foram Orchidaceae (com 10%), Rubiaceae (7%), Bromeliaceae (5,5%), Melastomataceae (4,2%) e Poaceae (4%). Já os géneros mais ricos foram Psychotria, (com 2%), Piper (1,8%), Ocotea (1,6%), Vriesea (1,5%) e Peperomia (1,4%). Mais de
metade das espécies registradas apresentaram hábito não-arbóreo com relação às formas de vida documentadas. Isso vem de encontro com a afirmativa de diversos autores de que em florestas tropicais a grande riqueza nas angiospermas é esperada para as espécies não-lenhosas, especialmente na Floresta Montana. Até o momento, doze espécies foram apontadas como novas, além de outras sete já descritas a partir das coleções obtidas anteriormente nessas duas áreas. Orchidaceae, Rubiaceae, Bromeliaceae e Poaceae apresentaram significativa riqueza nesse estudo e são famílias comumente reportadas como as mais ricas em outros inventários na Floresta Atlântica no sul da Bahia comprovando sua importância na flora local. Os altos índices de riqueza, endemismo e o crescente número de novidades taxonômicas provenientes de ambas as áreas indicam a importância biológica desses dois remanescentes. A implementação de parques ou demais reservas ambientais protegidas seriam essenciais para a conservação de suas espécies.

**Palavras-chave:** Floresta Atlântica, Conservação da biodiversidade, Documentação florística e Remanescentes florestais.

**Introduction**

The Atlantic Forest covers the east coast of Brazil and is the second largest tropical rainforest on the American continent. It comprises 1% to 8% of the world’s biodiversity (Silva and Casteleti 2005) and is the largest hotspot in the country, comprising 17,691 plant species, including algae, bryophytes, ferns, lycophytes, gymnosperms, and angiosperms, 40% of which are endemic (Forzza et al. 2012). The Atlantic Forest is considered one of the most important phytogeographic domains for biodiversity preservation worldwide because it is extremely diversified, covering regions with various levels of species abundance, composition, and endemism (Silva and Casteleti 2005).

The abundance and diversity are thought to have resulted in the isolation of two large South American forest blocks: the Amazonian Forest and the Andean Forests (Silva and Casteleti 2005). The Atlantic Forest and the vast Amazonian domain are separated by an open corridor formed by seasonal vegetation, including the Caatinga in the northeast semi-arid region of Brazil; the Cerrado in the midwest; and the Chaco, a region of dry vegetation located in the central lowlands of South America (Argentina, Bolivia, and Paraguay), which separates the Atlantic domain from the Andean forests (Rizzini 1997, Silva and Casteleti 2005). The transition from the Atlantic Forest to the Caatinga in the semi-arid regions is relatively abrupt and occurs in northeastern Brazil, where a narrow strip of coastal forests (less than 50 km) is delimited by an equally narrow strip of seasonal semi-deciduous forests (Oliveira-Filho and Fontes 2000). In southeastern Brazil, the transition from coastal forests to the Cerrado biome involves a much larger extension of semi-deciduous forests, which extends southward and forms complex mosaics with the Cerrado vegetation to the west. In the south, these semi-deciduous forests also extend along the Paraná river basin in eastern Paraguay and northeastern Argentina, where they make a transition to the Chaco biome (Oliveira-Filho and Fontes 2000).

The isolation of the South American forest blocks has resulted in consistent demographic changes in forest populations during the Pleistocene and Holocene eras, followed by climate changes during the late Quarternary era (Carnaval and Moritz 2008). These changes have had a greater impact on the southern portion of the Atlantic Forest and resulted in the evolution of a unique biota (Oliveira-Filho and Ratter 1995, Carnaval and Moritz 2008). The Atlantic Forest is considered one of the most unique biogeographical zones in South America. It shows great variations in topography, pluviometric regimes, and phytogeographic units because of its wide latitude (approximately 27°), longitude (from the coast to the interior), and altitude (from the sea level to altitudes of approximately 2700 m) (Silva and Casteleti 2005). These elements have led to the floristic and physiographic heterogeneity present across the entire area (Pinto et al. 1996, Oliveira-Filho and Fontes 2000).

Special importance should be given to the forest altitude, which accounts for several environmental factors, including variations in the availability of solar energy, resources, and the forest’s potential to serve as refuge for immigrant species; this potential may be higher in the lowlands and lower in the more isolated montane areas (Lomolino 2001). In addition, higher altitudes lead to a reduction in the number of species because of the occurrence of more severe environmental conditions with an increase in the altitude (e.g., edaphic factors, temperature, wind speed, and rainfall) (Lieberman et al. 1996, Pendry and Proctor 1996).

Taken together, these factors result in a wide variation in the species composition of the Atlantic Forest and make this area a heterogeneous unit with regard to studies on biodiversity conservation (Silva and Casteleti 2005). The difference between ombrophilous and semi-deciduous forests is consistent from a floristic point of view and is closely correlated with the rainfall (Oliveira-Filho and Fontes 2000). In this respect, the arboreal flora of semi-deciduous forests is largely a subset of the flora of ombrophilous forests and probably gives rise to species capable of withstanding more prolonged dry seasons (Oliveira-Filho and Fontes 2000, Oliveira-Filho et al. 2005). In addition, changes in the flora of semi-deciduous forests are associated with an increase in length of the dry season, which is caused by an increase in the distance from the ocean. Furthermore, altitude variations and the corresponding temperature variations are closely correlated with the internal floristic differentiation in both ombrophilous and semi-deciduous forests (Oliveira-Filho and Fontes 2000). Notably, the difference between deciduous and semi-deciduous forests is probably linked to a combination of chemical properties of the soil, rainfall, and variations in the altitude and latitude (Oliveira-Filho and Ratter 1995). Therefore, the definition of the Atlantic Forest should be as broad as that of the Amazonian formations (Oliveira-Filho and Fontes 2000).

In this context, the Atlantic Forest of southern Bahia can be included among the wet forests of the Northeast, which extend from Pernambuco to northern Espírito Santo. It is represented by coastal forests that cover an area of approximately 100–200 km in width along the east coast of Brazil and by forests that become increasingly drier toward the interior. Therefore, open
formations gradually change to ombrophilous forests, semi-deciduous forests, and seasonally dry deciduous forest as one moves from east to west (Gouvêa et al. 1976, Silva and Casteletti 2005). In these forests, the minimum annual rainfall of 1600 mm and a dry period of not more than 2 months per year reflect the separation between wet and seasonal forests, with wet forests being essentially evergreen and comprising less than 20% of deciduous trees (Thomas and Barbosa 2008). In addition, wet forests can be classified according to the altitude as follows: lowland (20–100 m), submontane (100–600 m), and montane (600–800 m) (Thomas and Barbosa 2008). However, Veloso (1992) defined other altitude ranges for these areas, with montane forests occurring at altitudes between 500 and 1500 m.

The coastal forests of southern Bahia may have provided refuge for the biodiversity present during the Pleistocene era. The continual identification of new species and the high level of endemism detected in other studies reinforce the evidence of the uniqueness of this relatively unexplored region (Mori et al. 1981, Thomas et al. 1998, Carnaval and Moritz 2008, Amorim et al. 2009). Of all the coastal areas of Brazil, coastal forests contain the highest number of endemic species of Myrtaceae (15 species), which are threatened with extinction (Carnaval and Moritz 2008, Murray-Smith et al. 2008).

To investigate the flora of the Montane Forest in southern Bahia, the present study aimed to produce an inventory of angiosperms in two vestigial areas of the Montane Forest located on the Almadina–Barro Preto axis in the cocoa-growing region of southern Bahia. Moreover, the present study aimed to investigate whether these vestigial areas differ in terms of abundance from other areas of vestigial forests located in nearby regions, for which floristic documentation exists. In southern Bahia, the abundance and endemism of vascular plants reportedly yields high levels of diversity (Thomas et al. 1998, Martini et al. 2007, Thomas et al. 2009, Amorim et al. 2009, Murray-Smith et al. 2008). Importantly, this floristic documentation provides more detailed information on the endemism, abundance, areas of occurrence of taxa, and identification of new species and may serve as the foundation for future studies on biome similarities, biogeography, and community structure (Giulietti et al. 2005, Funk 2006).

Material and Methods

Study areas

The study areas are located in the Montane Forest (Veloso, 1992) in the cocoa-growing region of the State of Bahia (Gouvêa, 1976), in the cities of Barro Preto [Serra da Pedra Lascada (SLP)] and Almadina [Serra do Corcovado (SCO)], which are approximately 18-km apart (Figure 1). The floristic richness of SLP has been reported previously (Amorim et al. 2009) and has been revised and extended in the present study. SCO (14°42’S and 39°36’W) is a vestigial forest of approximately 300 ha that lies approximately 56 km from the coast, with altitudes ranging from 600 to 950 m above the sea level (Amorim et al. 2009). There is a rocky outcrop of the “inselberg” type on the eastern side of the slope. This outcrop is formed by granites and gnaisses from the Precambrian era, comprising ancient elements of the landscape (Porembski et al. 1998). SLP is primarily populated by rupicolous monocotyledons and exhibits particular edaphic and microclimatic conditions, revealing its importance from a geomorphological and topographical perspective (Figures 2B, C and D). This forest has some well-preserved areas, with trees 20 to 30 m in height, and a dense subforest. There is an abundance of epiphytes, particularly mosses, ferns, and lycophytes, which sometimes give the appearance of cloud forests as the altitude increases. The forest fragment surveyed has an irregular area and is sharply demarcated by the adjacent cocoa plantations (Theobroma cacao L.) where the trees are cultivated under the cabraca system. This fragment also comprises regeneration areas and pasture lands (Amorim et al. 2009).

SCO (14°42’S and 39°36’W) is located at altitudes ranging from 400 to 1040 m above the sea level. It comprises an area of approximately 2500 ha and is located at a distance of 65 km from the coast; its slopes contain springs that form part of the river basin of Almada, the main river in the region. These springs ultimately provide water supply to the city of Almadina (Figure 2A). A part of the slope of SCO comprises a steep rocky outcrop of the “inselberg” type, which gives it a unique geomorphology. This outcrop is populated by a large number of vascular plants, particularly rupicolous flora such as Bromeliaceae and Orchidaceae (Figure 2E) (Porembski et al. 1998). The forest contains dense subforests, trees up to 35 m in height, and an abundance of epiphytes, giving it the appearance of a cloud forest at altitudes of 800 m above the sea level. There is an abundance of rupicolous species, particularly mosses, and the presence of various species of Cyatheaceae. Cocoa plantations, with trees cultivated under the cabraca system, and pasture lands are also common around SCO.

The climate of the region is warm and wet, with a dry season of the Af (Köppen) type (Peel et al. 2007). The average annual rainfall ranges between 1500 and 1750 mm, and the average daily rainfall varies between 50 and 100 mm. The average annual temperature varies between 23°C and 24°C, with a thermal range of 10°C to 14°C. The annual total potential evapotranspiration varies from 1200 to 1300, mm and the relative humidity is less than 80%.

Floristic Surveys

Eight field trips were conducted between July 2011 and June 2012, each lasting for 2 to 3 days. The surveys prioritized SCO because it is an area with large gaps in floristic documentation. These field trips, when added to the 12 previous trips (five in SCO and seven in SLP) conducted by various collaborators between 2004 and 2010, enabled the collections to be distributed throughout the year and increased the documentation of fertile specimens. Preliminary data from SLP used in this study had been previously published by Amorim et al. (2009).

The documentation of angiosperms was conducted through collection along the trails and access roads by careful visual examination with the aid of binoculars, with the aim of collecting the largest number of fertile species possible. Some trees were surveyed using climbing techniques to collect arboreal specimens and document the epiphytic flora. In addition, fallen trees and canopy branches were examined in detail. Sterile specimens were collected whenever their identification in the field was possible.

The material collected was prepared according to Fidalgo and Bononi (1989) and deposited in the CEPEC Herbarium. Duplicates were sent to the HUEFS and RB archives. Species were identified by literature search, comparison with the material deposited in the CEPEC, and consultation with specialists. The material identified was standardized in morphotypes and
Figure 1. Location of Serra da Pedra Lascada (SPL) and Serra do Corcovado (SCO) regions and their respective cities (Barro Preto and Almadina) in southern Bahia, Brazil.
Results

Floristic Survey

In the SCO and SPL areas, a total of 899 species of angiosperms, distributed in 437 genera and 116 families, was documented (Table 1). SCO was the area with a greater abundance, with 678 species distributed in 367 genera and 100 families. SPL comprised 466 species in 269 genera and 88 families. The percentage of species identified was 85.8% (772 species), 14% (124 species) and 0.5% (5 species) of which were identified only at the genus and family level, respectively.

Of the total species documented, 37.7% (291 species) are endemic to the Atlantic Forest and 11.2% (101 species) are endemic to southern Bahia and northern Espírito Santo (Figure 3). The remaining 44.3% species are widely distributed in Brazil. Most endemic species were arboreal (36%), followed by epiphytic (23.3%), arbustive (11%), climbing (10.7%), and herbaceous (7.6%) species. In total, 81 species (7%) had a disjunct distribution between the Atlantic and Amazonian forests.

In SCO and SPL, the five most abundant families were Orchidaceae (10%; 91 species), Rubiaceae (7%; 63 species), Bromeliaceae (5.5%; 50 species), Melastomataceae (4.2%; 38 species), and Poaceae (4%; 37 species). These families accounted for 30.7% of the documented species (Figure 4). In terms of the number of species, the five most abundant families in SCO were Orchidaceae (69 species), Rubiaceae (46 species), Bromeliaceae (33 species), Fabaceae (30 species), and Melastomataceae (28 species). In SPL, the families with the largest number of species were Orchidaceae (42 species), Rubiaceae (41 species), Bromeliaceae (30 species), Melastomataceae (27 species), and Poaceae (23 species).

In these two areas, the most abundant genera were Psychotria (18 species), Piper (17 species), Ocotea (15 species), Vriesea (14 species), and Peperomia (13 species) (Figure 5). In SCO, the number of genera represented by a single species totaled 34.2% (233 genera), and in SPL, it totaled 40% (185 genera). When both the areas were analyzed together, the percentage was only 29.4% (265 genera). In terms of the number of species, the most abundant genera in SCO were Psychotria (16 species), Piper (13 species), Peperomia and Solanum (11 species each), and Anthurium, Ocotea, and Vriesea (10 species each), whereas the most abundant genera in SPL were Psychotria (12 species), Piper (11 species), Ocotea and Peperomia (9 species each), and Aechmea, Leandra, Miconia, and Vriesea (8 species each).

Among the life forms documented in SCO, 35.2% of the species were arboreal, 21% were epiphytic/hemiepiphytic, 16.5% were arbustive/subarbustive, 14.6% were herbaceous, 11.5% were climbing, and 1.3% were hemiparasitic (Figure 6). In SPL, 33.7% of the species were arboreal, 23.8% were epiphytic/hemiepiphytic, 18.5% were arbustive/subarbustive, 13.4% were herbaceous, 10% were climbing, and 0.6% were hemiparasitic. In total, 17 species were rupicolous, and most of them belonged to the family Piperaceae. More than 50% of the species recorded were nonarboreal (64.8% in SCO and 66.3% in SPL). These values were similar to those found in previous studies performed in the same region (Figure 6, Table 2).

In SCO and SPL, the most abundant families in terms of liana species were Malpighiaceae (13 species), Asteraceae (12 species), Sapindaceae (9 species), Celastraceae (8 species), and Bignoniaceae, Fabaceae, and Cucurbitaceae (7 species each),

Figure 2. Serra do Corcovado (SCO) and Serra da Pedra Lascada (SPL) in the Montane Forest, southern Bahia, Brazil
A: General view of SCO from the urban center of Almadina. B: General view of SPL from the access road. C: Secondary vegetation on one of the slopes of SPL.
D: Interior of a mature forest in SPL showing the base of the inselberg.
E: Vegetation at the top of the slope showing one of the exposed sides of the inselberg in SCO. Photos A and E were taken by André Paviotti.

classified as proposed by APG III (2009). The specific epithets and citations of the authors of the species were standardized on the basis of the Lista de Espécies da Flora do Brasil (2012) [List of Species of the Brazilian Flora (2012)] and on the website The Plant List (2012). The occurrence of species and endemism were verified in the Lista de Espécies da Flora do Brasil (2012), Amorim et al. (2009), Thomas et al. (2003), and Stehmann et al. (2009). Endangered species were searched in the lists of Biodiversitas (2009) and MMA (2008).

Classification of life forms into arboreal, arbustive, epiphytic, hemiepiphytic, parasitic, and hemiparasitic followed the standard used by Amorim et al. (2009) and was obtained by field observation and, in some cases, from exsiccate labels of each taxon. Rupicolous species are indicated in Table 1 with an asterisk (*). The percentage of contribution of these species was calculated and compared with that obtained in previous survey (Amorim et al. 2009) conducted in the Atlantic Forest in southern Bahia, which used a similar methodology and for which sample material is accessible in scientific archives such as CEPEC and RB.
### Table 1. List of species sampled on Serra do Corcovado and Serra da Pedra Lascada in the Montane Forest, southern Bahia, Brazil.

| Family/Species | Habit | SCO | SPL | Phytogeographic Domain | New Occurrence | Threat |
|----------------|-------|-----|-----|-------------------------|----------------|--------|
| **ACANTHACEAE** |       |     |     |                         |                |        |
| Aphelandra cf. bahiensis (Nees) Wassh. | Sub-shr. | JP 888 | Atlantic Forest |                   |                |        |
| Aphelandra blanchetiana (Nees) Hook. | Sub-shr. | AA 4080 | Atlantic Forest |                   |                |        |
| Aphelandra hirta (Klotzsch) Wassh. | Sub-shr. | AA 4080a | Atlantic Forest |                   |                |        |
| Aphelandra nitida Nees & Mart. | Sub-shr. | PF 1635 | Atlantic Forest |                   |                |        |
| Justicia sp.1 | Sub-shr. | MC 338 | Atlantic Forest |                   |                |        |
| Justicia beyrichii (Nees) Lindau | Sub-shr. | AA 4242 | Atlantic Forest |                   |                |        |
| Justicia geminiflora Nees & Mart. | Herb. | LM 4926 | Atlantic Forest |                   |                |        |
| Justicia cf. symphyantha (Nees) Lindau | Sub-shr. | JP 829 | Atlantic Forest |                   |                |        |
| Ruellia sp. 1 | Sub-shr. | ML 357 | Atlantic Forest |                   |                |        |
| Ruellia sp. 2 | Herb. | PF 1638 | Atlantic Forest |                   |                |        |
| Ruellia sp. 3 | Herb. | MC 386 | Atlantic Forest |                   |                |        |
| Ruellia curviflora Nees & Mart. | Herb. | MC 689 | Atlantic Forest |                   |                |        |
| Thunbergia fragrans Roxb. | Clim. | MC 454 | Atlantic Forest |                   |                |        |
| **ACHARIACEAE** |       |     |     |                         |                |        |
| Carpitothroche brasiliensis (Raddi) Endl. | Arb. | MC 415 | Amazonian, Cerrado, Atlantic Forest |                   |                |        |
| **AGAVACEAE** |       |     |     |                         |                |        |
| Herreria sp. 1 | Clim. | MC 475 |                   |                |        |
| **AMARANTACEAE** |       |     |     |                         |                |        |
| Cyathula achyranthoides (Kunth) Moq. | Herb. | MC 696 | Amazonian, Caatinga, Atlantic Forest |                   |                |        |
| **ANACARDIACEAE** |       |     |     |                         |                |        |
| Tapirira guianensis Aubl. | Arb. | RB 472 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                   |                |        |
| **ANNONACEAE** |       |     |     |                         |                |        |
| Annona acutiflora Mart. | Shr. | PF 1907 | Atlantic Forest |                   |                |        |
| Annona dacarcar Warm. | Arb. | MC 762 | Atlantic Forest |                   |                |        |
| Annona dollabripetala Raddi | Arb. | MC 614 | Atlantic Forest |                   |                |        |
| Guatteria sp. 1 | Arb. | LM 4913 | Atlantic Forest |                   |                |        |
| Guatteria australis A.St.-Hil. | Arb. | AL 720 | Atlantic Forest |                   |                |        |
| Guatteria ferruginea A.St.-Hil. | Arb. | AL 722 | Atlantic Forest |                   |                |        |
| Guatteria pogonopus Mart. | Arb. | ML 1126 | Atlantic Forest |                   |                |        |
| Unonopsis sp. 1 | Arb. | LM 4897 | Atlantic Forest |                   |                |        |

Continued on next page
| Family/Species                  | Habit    | SCO | SPL    | Phytogeographic Domain          | New Occurrence       | Threat                          |
|--------------------------------|----------|-----|--------|---------------------------------|----------------------|---------------------------------|
| *Unonopsis bahiensis* Maas & Orava | Arb.     | MC 405 | WT 14294 | Atlantic Forest                |                      |                                 |
| *Xylopia sericea* A. St.-Hill.  | Arb.     | JP 889 |         | Amazonian, Cerrado, Atlantic Forest |                      |                                 |
| **APOCYNACEAE**                |          |      |        |                                 |                      |                                 |
| *Aspidosperma spruceanum* Benth. ex Müll. Arg. | Arb.     | PF 2929 |         | Amazonian, Cerrado, Atlantic Forest |                      |                                 |
| *Bahiella infundibuliflora* J.F. Morales | Clim.    | JP 903 | RB 515 | Atlantic Forest                |                      |                                 |
| *Forsteronia leptocarpa* (Hook. & Arn.) A.DC. | Arb.     | PF 1756 |         | Atlantic Forest                |                      |                                 |
| *Himatanthus bracteatus* (A.DC.) Woodson | Arb.     | JP 889 |         | Amazonian, Atlantic Forest      |                      |                                 |
| *Lacmellea pauciflora* (Kuhl.) Markgr. | Arb.     | ML 721 |         | Atlantic Forest                |                      |                                 |
| *Malouetia cestroides* (Nees ex Mart.) Müll.Arg. | Arb.     | RB 518 |         | Atlantic Forest                |                      |                                 |
| *Mandevilla funiformis* (Vell.) K. Schum. | Clim.    | MC 712 | AA 4785 | Atlantic Forest                |                      |                                 |
| *Mandevilla permixa* Woodson | Sub-shr. | RB 414 |         | Atlantic Forest                |                      |                                 |
| *Orthosia parviflora* (E.Fourn.) Liede & Meve. | Clim.    | MC 852 |         | Atlantic Forest                |                      |                                 |
| *Peltastes peltatus* (Vell.) Woodson | Clim.    | AA 8130 |         | Atlantic Forest                |                      |                                 |
| *Rauvolfia grandiflora* Mart. ex A.DC. | Arb.     | PF 1615 | JP 766 | Cerrado, Atlantic Forest        |                      |                                 |
| *Tabernaemontana flavicans* Wildl. ex Roem. & Schult. | Arb.     | MC 346 |         | Amazonian, Cerrado, Atlantic Forest |                      |                                 |
| *Tabernaemontana salzmannii* A.DC. | Arb.     | MC 473 |         | Cerrado, Atlantic Forest        |                      |                                 |
| **APODANTHACEAE**              |          |      |        |                                 |                      |                                 |
| *Apodanthes caseariae* Poit.    | Holopar. | ML 1112 |         | Amazonian, Atlantic Forest      |                      | Northeast                       |
| **AQUIFOLIACEAE**              |          |      |        |                                 |                      |                                 |
| *Ilex aff. conocarpa* Reissek   | Arb.     | PF 2642 |         | Atlantic Forest                |                      |                                 |
| *Ilex psammophila* Mart. ex Reissek. | Arb.     | MC 657 |         | Atlantic Forest                |                      |                                 |
| **ARACEAE**                    |          |      |        |                                 |                      |                                 |
| *Anthurium* sp.1               | Epip.    | DC 2135 |         | Atlantic Forest                |                      |                                 |
| *Anthurium* sp.2               | Epip.    | MC 380 | PF 1830 | Atlantic Forest                |                      |                                 |
| *Anthurium bellum* Schott      | Herb.    | MC 400 | AA 4079 | Atlantic Forest                |                      |                                 |
| *Anthurium gladifolium* Schott  | Epip.    | MC 511 | PF 1904 | Atlantic Forest                |                      |                                 |
| *Anthurium gracile* (Rudge) Lindl. | Epip.  | MC 619 |         | Amazonian, Caatinga, Cerrado, Atlantic Forest |                      |                                 |
| *Anthurium illepidum* Schott   | Hemiep.  | FF 1494 |         | Atlantic Forest                |                      |                                 |
| *Anthurium intermediate* Kunth  | Epip.    | RP 836 |         | Atlantic Forest                |                      |                                 |
| *Anthurium filekii* Schott     | Epip.*   | RB 554 | ML 1106 | Caatinga, Atlantic Forest      |                      |                                 |
| *Anthurium pentaphyllum* (Aubl.) G.Don | Epip. | MC 838 | PF 1856 | Amazonian, Atlantic Forest, Pantanal |                      |                                 |
| *Anthurium scandens* (Aubl.) Engl. | Hemiep. | DC 2154 | RB 503 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                      |                                 |
| *Anthurium solitarius* Schott  | Epip.    | JP 866 |         | Amazonian, Cerrado, Atlantic Forest |                      |                                 |
| *Asterostigma riedelianum* (Schott) Kuntze | Herb. | ML 1125 | PF 1782 | Atlantic Forest                |                      |                                 |

Continued on next page
| Family/Species                          | Habit     | SCO   | SPL   | Phytogeographic Domain     | New Occurrence | Threat   |
|---------------------------------------|-----------|-------|-------|----------------------------|----------------|----------|
| *Heteropsis oblongifolia* Kunth       | Hemiep.   | MC 403| AA 4209| Amazonian, Cerrado, Atlantic Forest |                |          |
| *Monstera adansonii* Schott var. *klotzschiana* (Schott) Madison | Hemiep.   | MC 849| AA 4820| Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Philodendron* sp. nova                | Epip.     | MC 466|       | Atlantic Forest             |                |          |
| *Philodendron cordatum* Kunth ex Schott | Hemiep.   | MC 862| WT 14315| Atlantic Forest              |                |          |
| *Philodendron edmundoi* G.M.Barroso   | Hemiep.   | MC 755|       | Atlantic Forest              |                |          |
| *Philodendron fragrantissimum* (Hook.) G.Don | Hemiep.*  | MC 430|       | Atlantic Forest              |                |          |
| *Philodendron hederaeum* (Jacq.) Schott | Hemiep.   | MC 742| AA s.n. | Amazonian, Caatinga, Atlantic Forest |                |          |
| *Philodendron longilaminatum* Schott  | Hemiep.   | MC 720|       | Atlantic Forest              |                |          |
| *Philodendron ornatum* Schott         | Epip.     | MC 742|       | Amazonian, Caatinga, Atlantic Forest |                |          |
| *Philodendron pedatum* (Hook.) Kunth  | Hemiep.   | MC 836| JP 774 | Atlantic Forest              |                |          |
| *Philodendron propinquum* Schott      | Hemiep.   | MC 859|       | Atlantic Forest              |                |          |
| *Rhodospatha latifolia* Poepp.        | Hemiep.   | ML 362| JP 780 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Stenospermation spruceanum* Schott   | Hemiep.*  | MC 413| WT 14322| Amazonian, Cerrado, Atlantic Forest |                |          |
| *Syngonium vellozianum* Schott        | Hemiep.   | MC 754|       | Amazonian, Atlantic Forest   |                |          |

**ARALIACEAE**

| *Dendropanax amorimii* Fiaschi       | Shr.      | ML 321|       | Atlantic Forest             |                |          |
| *Schefflera morotoni* (Aubl.) Maguire, Steyerm. & Frodin | Arb.      | ML 1230|       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Schefflera aff. varisiana* Frodin   | Arb.      | JP 844| AA 4542| Atlantic Forest              |                |          |

**ARENACEAE**

| *Attalea oleifera* Barb.Rodr.        | Arb.      | RB 373|       | Cerrado, Atlantic Forest     |                | LR Lc    |
| *Bactris* sp. 1                      | Arb.      | RB 440|       | Atlantic Forest              |                | VU       |
| *Bactris pickelli* Burret            | Shr.      | RB 432| AA 4881| Atlantic Forest              |                | EN anexo I|
| *Bactris setosa* Mart.               | Arb.      | AA 8138|       | Cerrado, Atlantic Forest     |                |          |
| *Euterpe edulis* Mart.               | Arb.      | MC 822| AA s.n.| Cerrado, Atlantic Forest     |                |          |

**ARISTOLOCHIACEAE**

| *Aristolochia tannifolia* (Klotzsch) Duch. | Clim.   | ML 1253|       | Cerrado, Atlantic Forest     |                |          |

Continued on next page
| Family/Species | Habit | SCO | SPL | Phytogeographic Domain | New Occurrence | Threat |
|---------------|-------|-----|-----|------------------------|----------------|--------|
| Asteraceae    |       |     |     |                        |                |        |
| Asterac. sp.1 | Herb. | MC 702 |     |                        |                |        |
| Asterac. sp.2 | Herb. | MC 831 |     |                        |                |        |
| Achyrocline satureioides DC. | Herb. | RB 393 |     |                        |                |        |
| Alberitia brasiliensis Spreng. | Clim. | ML 1257 |     |                        |                |        |
| Baccharis sp.1 | Herb. | MC 803 |     |                        |                |        |
| Baccharis calvenscens DC. | Shr. | MC 804 |     | RB 514 | Cerrado, Atlantic Forest, Pampa |        |
| Baccharis oblongifolia (Ruíz & Pav.) Pers. | Arb. | AA 8125 |     | PF 1770 | Amazonian, Cerrado, Atlantic Forest |        |
| Baccharis singularis (Vell.) G.M. Barroso | Herb. | RP 117 |     |                        |                |        |
| Barrosoa atlantica R.M.King & H.Rob. | Herb. | MC 799 |     |                        |                |        |
| Calyptocarpus biaristatus (DC.) H.Rob. | Herb. | MC 692 |     |                        |                |        |
| Chaptalia nutans (L.) Pol. | Herb. | MC 692 |     |                        |                |        |
| Conocliniopsis prasifolia (DC.) R.M.King & H. Rob. | Herb. | RP 114 |     |                        |                |        |
| Cyclotymura scrophoides (Lam.) H.Rob. | Sub-shr. | DC 2153 |     | AA 4106 | Amazonian, Cerrado, Atlantic Forest |        |
| Discranthera hebeclinia H.Rob. | Herb. | MC 506 |     |                        |                |        |
| Elephantopus mollis H.B.K. | Sub-shr. | MC 703 |     | AA 4243 | Amazonian, Cerrado, Atlantic Forest, Pampa, Pantanal |        |
| Erechites valerianifolius (Wolf) DC. | Herb. | RB 387 |     |                        |                |        |
| Heterocomys alatus (Vell.) R.M.King & H.Rob. | Shr. | RB 392 |     |                        |                |        |
| Lepidaploa cotoneaster (Willd. ex Spreng.) H.Rob. | Sub-shr. | DC 2124 |     | PF 1546 | Cerrado, Atlantic Forest |        |
| Lepidaploa sp. | Sub-shr. | WT 14172 |     |                        |                |        |
| Mikania sp. 1 | Clim. | RP 118 |     |                        |                |        |
| Mikania argyreae DC. | Clim. | ML 738 |     |                        |                |        |
| Mikania baffleiaefolia DC. | Clim. |         |     |                        |                |        |
| Mikania callinea Sch.Bip. ex Baker | Clim. |         |     |                        |                |        |
| Mikania candelmana Gardner | Clim. |         |     |                        |                |        |
| Mikania aff. hookeriiana DC. | Clim. |         |     |                        |                |        |
| Mikania kubitzki R.M.King & H.Rob. | Clim. |         |     |                        |                |        |
| Mikania mattos-silvae R.M.King & H.Rob. | Clim. |         |     |                        |                |        |
| Mikania trinervis Hook. & Arn. | Clim. |         |     |                        |                |        |
| Mikania ulei Hieron. | Clim. |         |     |                        |                |        |
| Piptocarpha pyrifolia (DC.) Baker | Clim. |         |     |                        |                |        |
| Solidago chilensis Meyen | Shr. |         |     |                        |                |        |
| Synedrella nodiflora (L.) Gaertn. | Herb. | MC 695 |     |                        |                |        |
| Vernonanthura discolor (Less.) H.Rob. | Arp. |         |     |                        |                |        |
| Vernonanthura vinhae (H. Rob.) H. Rob. | Shr. |         |     |                        |                |        |
|                |       |     |     |                        |                |        |

Continued on next page
| Family/Species | Habit       | SCO   | SPL  | Phytogeographic Domain | New Occurrence | Threat                      |
|---------------|-------------|-------|------|-------------------------|----------------|-----------------------------|
| **BEGONIACEAE** |             |       |      |                         |                |                             |
| *Begonia* sp.1 | Herb.       | RB 415| AA 4906 | Atlantic Forest          |                |                             |
| *Begonia convolvulacea* Klotzsch A.DC. | Hemiep. | WT 14166 | AA 4912 | Atlantic Forest          |                |                             |
| *Begonia digitata* Raddi | Sub-shr. | MC 604 | ML 347 | Atlantic Forest          |                |                             |
| *Begonia fischeri* Schrank | Herb. | DC 2143 | | | | Amazonian, Caatinga, Cerrado, Atlantic Forest |
| *Begonia fruticosa* (Klotzsch) A.DC. | Epip. | PF 2937 | AA 4229 | Atlantic Forest          |                |                             |
| *Begonia itaguassuensis* Brade | Herb. | WT 14167 | PF 1533 | Atlantic Forest          |                |                             |
| *Begonia neglecta* A.DC. | Herb. | MC 378 | AA 4847 | Atlantic Forest          |                |                             |
| *Begonia polygonifolia* A.DC. | Hemiep. | WT 14164 | | Atlantic Forest          |                |                             |
| *Begonia smilacina* A. DC. | Hemiep. | MC 617 | AA 4527 | Atlantic Forest          |                |                             |
| **BIGNONIACEAE** |             |       |      |                         |                |                             |
| *Adenocalymma* sp. 1 | Clim. | MC 401 | PF 1777 | Atlantic Forest          |                |                             |
| *Amphilophium crucigerum* (L.) L.G. Lohmann | Arb. | MC 566 | | Amazonian, Cerrado, Atlantic Forest, Pantanal | |                             |
| *Anemopaegma* sp. 1 | Clim. | ML 1239 | | Atlantic Forest          |                |                             |
| *Callichlamys latifolia* (Rich.) K.Schum. | Clim. | ML 1248 | | Amazonian, Cerrado, Atlantic Forest, Pantanal | |                             |
| *Handroanthus heptaphyllus* (Vell.) Mattos | Arb. | DC 2127 | | Cerrado, Atlantic Forest |                |                             |
| *Jacaranda* sp. 1 | Arb. | MC 858 | | Atlantic Forest          |                |                             |
| *Lundia cordata* (Vell.) DC. | Clim. | MC 409 | | Cerrado, Atlantic Forest |                |                             |
| *Pleonotoma albiflora* (Salzm. ex DC.) A.H.Gentry | Clim. | JP 771 | | Amazonian, Cerrado, Atlantic Forest, Pantanal | |                             |
| *Sparattosperma leucanthum* (Vell.) K. Schum. | Arb. | PF 2926 | | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pantanal | |                             |
| *Tabebuia elliptica* (DC.) Sandwith | Arb. | ML 1286 | | Caatinga, Cerrado, Atlantic Forest |                |                             |
| *Tanaecium jaroba* Sw. | Clim. | ML 1248 | ML 686 | Amazonian, Pantanal, Atlantic Forest | |                             |
| **BORAGINACEAE** |             |       |      |                         |                |                             |
| *Cordia* sp. 1 | Arb. | JP 840 | MC 425 | Atlantic Forest          |                |                             |
| *Cordia* sp.2 | Arb. | | AA 4893 | Atlantic Forest          |                |                             |
| *Cordia candida* Vell. | Arb. | MC 573 | | Atlantic Forest          |                |                             |
| *Cordia ecalyculata* Vell. | Arb. | PF 2916 | AA 4218 | Atlantic Forest          |                |                             |
| *Cordia cf. superba* Cham. | Arb. | WT 14178 | | Caatinga, Cerrado, Atlantic Forest | |                             |
| *Cordia trichocladana* DC. | Arb. | MC 515 | | Atlantic Forest          |                |                             |
| *Tournefortia gardneri* A.DC. | Clim. | | ML 340 | Atlantic Forest          |                |                             |
| *Varronia curassavica* Jacq. | Shr. | MC 733 | | Amazonian, Caatinga, Atlantic Forest | |                             |
| *Varronia tarodaea* J.S.Mill. | Shr. | ML 739 | JP 798 | Atlantic Forest          |                |                             |
| Family/Species | Habit  | SCO  | SPL  | Phytogeographic Domain       | New Occurrence | Threat |
|----------------|--------|------|------|------------------------------|----------------|--------|
| **BRÖMELIACEAE** |        |      |      |                              |                |        |
| Aechmea sp. 1  | Epip.  | MC 479 | ML 678 | Atlantic Forest              |                |        |
| Aechmea sp. 2  | Epip.  | MC 358 | PF 2626 | Atlantic Forest              |                |        |
| Aechmea sp. 3  | Herb.  | AA 8134 | | Atlantic Forest              |                |        |
| Aechmea conifera L.B.Sm. | Epip. | MC 741 | | Atlantic Forest              |                |        |
| Aechmea digitata L.B.Sm. & R.W.Read | Epip. | AA 8135 | | Atlantic Forest              |                |        |
| Aechmea froesii (L.B.Sm.) Leme & J.A.Siqueira | Epip. | ML 685 | | Atlantic Forest              |                |        |
| Aechmea guaratingensis Leme & L. Kollmann | Epip. | RB 434 | | Atlantic Forest              |                |        |
| Aechmea miniata Beer ex Baker | Epip. | RB 530 | WT 14308 | Atlantic Forest              |                |        |
| Aechmea subhainensis Leme, Amorim & J.A.Siqueira | Epip. | ML 1169 | | Atlantic Forest              |                |        |
| Aechmea turbinocalyx Mez | Epip. | PF 1763 | | Atlantic Forest              |                |        |
| Aechmea viridipetala A.F.Costa & Amorim | Epip. | AA 4110 | | Atlantic Forest              |                |        |
| Aechmea viridostigma Leme & H.Luther | Epip. | PF 1560 | | Atlantic Forest              |                |        |
| Billbergia espeniae E. Morren | Epp. | JP 873 | RP 843 | Atlantic Forest |                |        |
| Billbergia iridifolia (Nees & Mart.) Lindley | Epp. | WT 14175 | | Caatinga, Atlantic Forest |                |        |
| Billbergia saundersii Bull | Epp. | MC 687 | AA 4849 | Atlantic Forest |                |        |
| Billbergia spiculosa (Griseb.) M.A.Spencer & L.B.Sm. | Epp. | AA 4797 | | Atlantic Forest |                |        |
| Canistrum auratum Leme | Epp. | PF 1762 | | Atlantic Forest |                |        |
| Canistrum montanum Leme | Epp. | PF 1917 | | Atlantic Forest |                |        |
| Canistrum seidelianum W.Weber | Epp. | AA 4681 | | Atlantic Forest |                |        |
| Gazania lingulata (L.) Mez | Epp. | WT 178 a | | Atlantic Forest |                |        |
| Hohenbergia sp.1 | Epp. | ML 1130 | | Atlantic Forest |                |        |
| Hohenbergia brachycephala L.B. Sm. | Epp. | ML 1130 | | Atlantic Forest |                |        |
| Lymania marantoides (L.B.Sm.) Read | Epp. | AA 4840 | | Atlantic Forest |                |        |
| Neoregelia kerryi Leme | Epp. | MC 749 | AA 4806 | Atlantic Forest |                |        |
| Neoregelia wilsoniana M.B. Foster | Epp. | MC 563 | | Atlantic Forest |                |        |
| Nidularium innocentii Lem. | Epp. | AA 4530 | | Atlantic Forest |                |        |
| Nidularium proceraum Lindm. | Epp. | RB 493 | | Atlantic Forest |                |        |
| Pitaevia flaminea Lindl. | Herb. | AA 4216 | | Cerrado, Atlantic Forest |                |        |
| Portea filifera L.B.Sm. | Epp. | MC 681 | AA 4825 | Atlantic Forest |                |        |
| Portea petropolitana (Wawra) Mez var. noettigii (Wawra) L.B.Sm. | Epp. | MC 580 | | Atlantic Forest |                |        |
| Racineae spiculosa (Griseb.) M.A.Spencer & L.B.Sm. | Epp.  | MC 758 | AA 4817a | Amazonian, Atlantic Forest |                |        |
| Ronbergia silvana Leme | Epp.  | PF 1764 | | Atlantic Forest |                |        |
| Tillandsia gardneri Lindl. | Epp.  | MC 398 | | Caatinga, Cerrado, Atlantic Forest |                |        |
| Tillandsia sprengeliana Klotzsch ex Mez | Epp.  | AA 4684 | JP 505 | Cerrado, Atlantic Forest |                |        |
| Tillandsia stricta Sol. | Epp.  | RB 460 | | Caatinga, Cerrado, Atlantic Forest |                |        |
| Tillandsia usneoides (L.) L. | Epp.  | MC 752 | | Caatinga, Cerrado, Atlantic Forest |                |        |
| Vriesea sp. 1 | Epp.  | MC 882 | | Atlantic Forest |                |        |
Table 1. Continued.

| Family/Species | Habit | SCO   | SPL  | Phytogeographic Domain          | New Occurrence | Threat |
|----------------|-------|-------|------|---------------------------------|----------------|--------|
| Vriesea sp.2   | Epip. |       | RB 511 | Atlantic Forest                |                |        |
| Vriesea blackburniana Leme | Epip. | AA 6338 | RB 494 | Atlantic Forest                |                |        |
| Vriesea drepanocarpa (Baker) Mez | Epip. | MC 366 |      | Atlantic Forest                |                |        |
| Vriesea dawaliana E. Morren | Epip. | AA 8165 |      | Atlantic Forest                |                |        |
| Vriesea ensiformis (Vell.) Beer | Epip. |         | PF 1887 | Atlantic Forest                |                |        |
| Vriesea flavmea L.B.Sm. | Epip. |         | RB 497  | Atlantic Forest                |                |        |
| Vriesea graciliscapa W. Weber | Epip. | MC 759  |      | Atlantic Forest                |                |        |
| Vriesea procera (Mart. ex Schult. & Schult.f.) Wittm. | Epip. | ML 1132 |      | Caatinga, Cerrado, Atlantic Forest |                |        |
| Vriesea psittacina (Hook.) Lindl. | Epip. | RB 435 | ML 1178 | Atlantic Forest                |                |        |
| Vriesea rhodostachys L.B.Sm. | Epip. |       | JJ 4783 | Atlantic Forest                |                |        |
| Vriesea ruschi L.B. Sm. | Epip. | RB 439 | RB 501  | Atlantic Forest                |                |        |
| Vriesea sandrae Leme | Epip. | ML 743  |      | Atlantic Forest                |                |        |
| Vriesea simplex (Vell.) Beer | Epip. | MC 664 | JP 777  | Atlantic Forest                |                |        |

**BURMANNIACEAE**

| Gymnosiphon divaricatus (Benth.) Benth. & Hook. f. | Herb. | ML 1288 | ML 691 | Amazonian, Cerrado, Atlantic Forest |

**CACTACEAE**

| Cereus sp.1 | Shrub. | MC 769  |      |                  |
| Hatiora salicornioides (Haw.) Britton & Rose | Epip. | AA 4823 |      | Atlantic Forest |
| Lepismium cruciforme (Vell.) Miq. | Epip. | MC 723  |      | Atlantic Forest |
| Rhipsalis baccifera (J.M.Muell.) Stearn subsp. hileia-batana N.P.Taylor & Barthlott | Epip. | MC 495  |      | Cerrado, Atlantic Forest |
| Rhipsalis floescosa Salm-Dyke ex Pfeiff. | Epip. | MC 497  |      | Cerrado, Atlantic Forest |
| Rhipsalis oblonga Loefgr. | Epip. | RB 430  | PF 1778 | Atlantic Forest |

**CAMPANULACEAE**

| Centropogon cornutus (L.) Druce | Sub-shrub. | MC 375 | AA 4211 | Amazonian, Caatinga, Cerrado, Atlantic Forest |

**CANNABACEAE**

| Celtis iguanae (Jacq.) Sarg. | Shrub. | WT 14162 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal |

**CANNACEAE**

| Canna paniculata Ruiz & Pav. | Sub-shrub. | AA 4236 |      | Cerrado, Atlantic Forest |

**CARDIOPTERIDACEAE**

| Citronella megaphylla (Miers) R.A. Howard | Arb. | RP 121 |      | Cerrado, Atlantic Forest |

Continued on next page
| Family/Species                                      | Habit      | Phytoecologic Domain     | New Occurrence | Threat  | SCO | SPL        |
|----------------------------------------------------|------------|--------------------------|----------------|---------|-----|------------|
| CARICACEAE                                         | Arbr.      | Atlantic Forest          |                |         |     | AA 4544    |
| *Jacaratia heptaphylla* (Vell.) A.DC.                | Arb.       | Atlantic Forest          |                |         | MC 820 | ML 350     |
| CARYOCARACEAE                                      | Clima.     | Atlantic Forest          |                |         |     | RB 377     |
| *Caryocar edule*                                   | Clima.     | Atlantic Forest          |                |         | MC 491 | AA 4544    |
| CELASTRACEAE                                       | Clima.     | Atlantic Forest          |                |         |     | MC 558     |
| *Anthodon decussatum*                              | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *C. cognatum*                                       | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *C. serratum*                                       | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *Maytenus brasiliensis*                            | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *Periploca spp.*                                    | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *Salacca elliptica*                                | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *Tithorea javanica*                                 | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *T. hypoleuca*                                      | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| *T. octandra*                                       | Arb.       | Atlantic Forest          |                |         |     | MC 558     |
| CHLORANTHACEAE                                     | Clima.     | Atlantic Forest          |                |         |     | RB 844     |
| *Hedyosmum brasiliense*                            | Clima.     | Atlantic Forest          |                |         |     | JP 498     |
| CHRYSOBALANACEAE                                   | Arb.       | Atlantic Forest          |                |         |     | PF 2915    |
| *Hirtella santolii*                                | Arb.       | Atlantic Forest          |                |         |     | PF 2915    |
| *Licania belemii*                                  | Arb.       | Atlantic Forest          |                |         |     | PF 2915    |
| *L. boehmii*                                        | Arb.       | Atlantic Forest          |                |         |     | PF 2915    |
| *L. hypoleuca*                                      | Arb.       | Atlantic Forest          |                |         |     | PF 2915    |
| *Garcinia gardneriana*                              | Arb.       | Atlantic Forest          |                |         |     | PF 2915    |
| CLUSIACEAE                                         | Clima.     | Atlantic Forest          |                |         |     | MC 624     |
| *Clusia e. citrina*                                 | Arb.       | Atlantic Forest          |                |         |     | MC 624     |
| *C. e. dardanoi*                                   | Arb.       | Atlantic Forest          |                |         |     | MC 624     |
| *C. e. melchiori*                                  | Arb.       | Atlantic Forest          |                |         |     | MC 624     |
| *Laconia gondwanensis*                              | Arb.       | Atlantic Forest          |                |         |     | MC 624     |
| *Garcinia macrophylla*                              | Arb.       | Atlantic Forest          |                |         |     | MC 624     |

Continued on next page
| Family/Species | Habit | SCO | SPL | Phytogeographic Domain | New Occurrence | Threat |
|---------------|-------|-----|-----|-------------------------|----------------|--------|
| **COMBRETACEAE** |       |     |     |                         |                |        |
| Combretum mellifluum | Clim. | MC 672 |     | Atlantic Forest |                |        |
| **COMMELINACEAE** |       |     |     |                         |                |        |
| Callisia monandra (Sw.) Schult.f. | Herb. | MC 701 |     | Caatinga, Atlantic Forest |                |        |
| Commelina sp.1 | Herb. | ML 1152 |     | Atlantic Forest |                |        |
| Dichorisandra sp. 1 | Herb. | MC 605 |     | Atlantic Forest |                |        |
| Dichorisandra sp. nova | Herb. | MC 691 |     | Atlantic Forest |                |        |
| Dichorisandra sp.3 | Herb. | RB 496 |     | Atlantic Forest |                |        |
| **CONNARACEAE** |       |     |     |                         |                |        |
| Connarus sp. 1 | Clim. | JP 901 |     | Atlantic Forest |                |        |
| Connarus sp. 2 | Clim. | MC 854 |     | Atlantic Forest |                |        |
| **COSTACEAE** |       |     |     |                         |                |        |
| Chamaecostus cuspidatus (Nees & Mart.) C. Specht & D. W. Stev. | Herb. | MC 493 |     | Amazonian, Atlantic Forest |                |        |
| Costus scaber | Sub-shr. | AA 4899 |     | Amazonian, Atlantic Forest |                |        |
| Costus spiralis (Jacq.) Roscoe | Herb. | MC 568 |     | Amazonian, Cerrado, Atlantic Forest | Bahia |        |
| **CUCURBITACEAE** |       |     |     |                         |                |        |
| Cayaponia sp. 1 | Clim. | MC 357 |     | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| Cayaponia cf. tayuya (Vell.) Cogn. | Clim. | RB 375 |     | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| Cayaponia trifoliolata (Cogn.) Cogn. | Clim. | MC 654 |     | Atlantic Forest |                |        |
| Gurania acuminata Cogn. | Clim. | JP 788 |     | Amazonian, Atlantic Forest |                |        |
| Gurania bignoniacea (Poepp. & Endl.) C.Jeffrey | Clim. | AA 4685 | AA 4219 | Amazonian, Atlantic Forest |                |        |
| Gurania speciosa (Poepp. & Endl.) Cogn. | Clim. | AA 4685 | AA 4219 | Amazonian, Atlantic Forest |                |        |
| Melothria cucumis Vell. | Clim. | ML 1145 |     | Amazonian, Atlantic Forest |                |        |
| **CUNONIACEAE** |       |     |     |                         |                |        |
| Lamanonia ternata Vell. | Arb. | AA 4830 |     | Cerrado, Atlantic Forest |                |        |
| **CYCLANTHACEAE** |       |     |     |                         |                |        |
| Asplundia gardneri (Hook.) Harling | Hemiep. | MC 531 |     | Caatinga, Atlantic Forest |                |        |
| Asplundia maximiliani Harling | Hemiep. | DC 2139 |     | Atlantic Forest |                |        |
| Evodianthus funifer (Poit.) Lindm. | Hemiep. | MC 528 | FF 1492 | Amazonian, Atlantic Forest |                |        |
| Thoracocarpus bissectus (Vell.) Harling | Hemiep. | MC 528 | FF 1492 | Amazonian, Atlantic Forest |                |        |
| **CYPERACEAE** |       |     |     |                         |                |        |
| Becquerelia cymosa Brongn. | Herb. | RB 446 | AA 4532a | Amazonian, Cerrado, Atlantic Forest |                |        |
### Table 1. Continued.

| Family/Species | Habit | SCO  | SPL  | Phytogeographic Domain                  | New Occurrence | Threat |
|----------------|-------|------|------|-----------------------------------------|----------------|--------|
| Cryptangium sp.1 | Herb. | ML 660 | Atlantic Forest                      |               |        |
| Hypolytrum aff. lucennoi M.Alves & W.W.Thomas | Herb. | PF 1836 | Atlantic Forest                      |               |        |
| Hypolytrum schraderianum Nees | Herb. | AA 4532 | Amazonian, Atlantic Forest          |               |        |
| Kyllinga sp.1 | Herb. | ML 1163 | Atlantic Forest                      |               |        |
| Pleurostachys sp.1 | Herb. | WT 14182 | Atlantic Forest                      |               |        |
| Pleurostachys sp.2 | Herb. | AA 4888 | Atlantic Forest                      |               |        |
| Pleurostachys gaudichaudii Brongn. | Herb. | WT 14180 | Atlantic Forest                      |               |        |
| Pleurostachys aff. orbignyanum Brongn. | Herb. | RB 544 | Atlantic Forest                      |               |        |
| Pleurostachys puberula Boeckeler | Herb. | MC 365 | Amazonian, Atlantic Forest          |               |        |
| Rhynchospora sp. 1 | Herb. | RB 425 | Atlantic Forest                      |               |        |
| Rhynchospora cryptantha C.B.Clarke | Herb. | WT 14326 | Atlantic Forest                      |               |        |
| Rhynchospora splendens Lindm. | Herb. | MC 356 | Atlantic Forest                      |               |        |
| Scleria sp.1 | Herb. | MC 355 | Amazonian, Caatinga, Cerrado, Atlantic Forest |               |        |
| Scleria latifolia Sw. | Herb. | ML 380 | Cerrado, Atlantic Forest, Pampa     |               |        |
| Scleria panicoides Kunth | Herb. | RB 396 | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal |               |        |
| Scleria scabra Willd. | Herb. | AA 4235 | Atlantic Forest                      |               |        |
| **DICAPETALACEAE** | | | | | |
| Stephanopodium blanchetianum Baill. | Arb. | MC 794 | Atlantic Forest                      |               |        |
| **DILLENIACEAE** | | | | | |
| Davilla nitida (Vahl) Kubitzki | Clim. | RP 712 | Amazonian, Cerrado, Atlantic Forest |               |        |
| Doliocarpus sp. 1 | Clim. | MC 871 | Atlantic Forest                      |               |        |
| **DIOSCOREACEAE** | | | | | |
| Dioscorea sp.1 | Clim. | MC 638 | Atlantic Forest                      |               |        |
| Dioscorea macrothyrsa Uline | Clim. | MC 670 | Atlantic Forest                      |               |        |
| Dioscorea multiflora Mart. ex Griseb. | Clim. | JP 566 | Amazonian, Cerrado, Atlantic Forest |               |        |
| Dioscorea subhastata Vell. | Clim. | RB 561 | Cerrado, Atlantic Forest             |               |        |
| **EBENACEAE** | | | | | |
| Diospyros sp. 1 | Arb. | MC 589 | Atlantic Forest                      |               |        |
| Diospyros apeibacarpus Raddi | Arb. | PF 1826 | Atlantic Forest                      | Northeast      |        |
| Diospyros riedelii (Hiern) B.Walln. | Arb. | AA 4677 | Atlantic Forest                      |               |        |
| **ELAEOCARPACEAE** | | | | | |
| Sloanea guianensis (Aubl.) Benth. | Arb. | MC 867 | Amazonian, Cerrado, Atlantic Forest |               |        |
| Sloanea garckeana K. Schum. | Arb. | ML 703 | Amazonian, Cerrado, Atlantic Forest |               |        |

Continued on next page
| Family/Species | Habit | SCO  | SPL   | Phytogeographic Domain                  | New Occurrence            | Threat |
|----------------|-------|------|-------|----------------------------------------|---------------------------|--------|
| **ERYTHROXYLACEAE** |       |      |       |                                        |                           |        |
| Erythroxylum citrifolium A.St.-Hil. | Arb.   | MC 530 | WT 14320 | Amazonian, Cerrado, Atlantic Forest     |                           |        |
| Erythroxylum columinum Mart. | Arb.   | AA 4879 |       | Atlantic Forest                        |                           |        |
| Erythroxylum cuspidifolium Mart. | Arb.   | AA 4834 |       | Atlantic Forest                        |                           |        |
| Erythroxylum flaccidum Salzm. ex Peyr. | Shr.   | MC 686 |       | Caatinga, Cerrado, Atlantic Forest     |                           |        |
| Erythroxylum aff. macrocalyx Mart. | Arb.   | MC 559 |       | Caatinga, Cerrado, Atlantic Forest     |                           |        |
| Erythroxylum nobile O.E. Schulz | Arb.   | MC 626 |       | Atlantic Forest                        |                           |        |
| Erythroxylum aff. pulchrum A.St.Hil. | Arb.   | MC 735 |       | Caatinga, Atlantic Forest              |                           |        |
| Erythroxylum squamatum Sw. | Arb.   | MC 622 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |        |
| **EUPHORBIACEAE** |       |      |       |                                        |                           |        |
| Acalypha sp.1 | Shr.   | RB 382 |       | Atlantic Forest                        |                           |        |
| Actinostemon appendiculatus Jabl. | Shr.   | LM 4901 |       | Atlantic Forest                        |                           |        |
| Alchornea triplinervia (Spreng.) Müll. Arg. | Arb.   | ML 706 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |        |
| Aparisthmium cordatum (A.Juss.) Baill. | Arb.   | ML 295 | WT 14291 | Amazonian, Atlantic Forest             |                           |        |
| Bernardia scabra Müll.Arg. | Shr.   |       |       | Caatinga, Atlantic Forest              |                           |        |
| Codiosculus oligandrus (Müll.Arg.) Pax | Arb.   | MC 745 |       | Caatinga, Atlantic Forest              |                           |        |
| Croton sp.1 | Shr.   | AA 4704 |       | Atlantic Forest                        |                           |        |
| Croton floribundus Spreng. | Arb.   | MC 766 |       | Caatinga, Cerrado, Atlantic Forest     |                           |        |
| Croton macrobothrys Baill. | Arb.   | MC 879 |       | Atlantic Forest                        |                           |        |
| Croton sincorensis Mart. | Shr.   | MC 824 |       | Caatinga, Atlantic Forest              |                           |        |
| Dalechampia ficifolia Lam. | Clim.  | MC 450 | RB 484 | Atlantic Forest                        |                           |        |
| Dalechampia ilheotica Wawra | Clim.  |       | WT 14288 | Atlantic Forest                        |                           |        |
| Mabea piriri Aubl. | Arb.   |       | FF 1501 | Amazonian, Cerrado, Atlantic Forest     |                           |        |
| Microstachys aff. hispida (Mart.) Govaerts | Shr.   | MC 595 | PF 2627 | Caatinga, Cerrado, Atlantic Forest     |                           |        |
| Pausanthera morisiana (Casar.) Radlk. | Arb.   | MC 823 | PF 2627 | Atlantic Forest                        |                           |        |
| Senefieldera verticillata (Vell.) Croizat | Arb.   | MC 483 | PF 2910 | Atlantic Forest                        |                           |        |
| Tetrochidium rubrivenium Poepp. | Arb.   | PF 2910 | JP 782 | Amazonian, Caatinga, Atlantic Forest   |                           |        |
| **FABACEAE** |       |      |       |                                        |                           |        |
| Abarema cochliacarpos (Gomes) Barneby & J.W. Grimes | Arb.   | RB 380 |       | Cerrado, Atlantic Forest               | VU                  |        |
| Albizia pedicellaris (DC.) L. Rico | Arb.   | JP 908 |       | Amazonian, Cerrado, Atlantic Forest     |                           |        |
| Anadenanthera peregrina var. falcata (Benth.) | Arb.   | MC 407 |       | Caatinga, Cerrado, Atlantic Forest     |                           |        |
| Altschul |        |      |       |                                        |                           |        |
| Andira fraxinifolia Benth. | Arb.   |       |       | Caatinga, Cerrado, Atlantic Forest     |                           |        |
| Bauhinia sp. 1 | Clim.  | MC 729 | PF 1543 | Atlantic Forest                        |                           |        |
| Bauhinia integerrima Mart. ex Benth. | Arb.   | JP 904 | JP 765 | Atlantic Forest                        | EN                  |        |
| Centrolobium robustum (Vell.) Mart. ex Benth. | Arb.   | MC 746 |       | Atlantic Forest                        |                           |        |

Continued on next page
| Family/Species                          | Habit  | SCO   | SPL   | Phytogeographic Domain                | New Occurrence | Threat   |
|----------------------------------------|--------|-------|-------|---------------------------------------|----------------|----------|
| Centrosema virginianum (L.) Benth.     | Clim.  | MC 455| SPL   | Amazonian, Caatinga, Cerrado, Atlantic |                |          |
| Copaifera trapezofolia Hayne           | Arb.   | ML 1280| SPL   | Atlantic Forest                        |                |          |
| Dalbergia nigra (Vell,) Alemaño ex Benth.| Arb.   | MC 811| SPL   | Atlantic Forest                        |                |          |
| Desmodium ascendentis (Sw.) DC.        | Sub-shr.| MC 781| SPL   | Amazonian, Caatinga, Cerrado, Atlantic |                | VU       |
| Exostyles venusta Schott               | Arb.   | MC 717 | SPL   | Atlantic Forest                        |                |          |
| Inga blancetiana Benth.                | Arb.   | PF 1612| SPL   | Atlantic Forest                        |                |          |
| Inga capitata Desv.                    | Arb.   | ML 353 | ML 1089| Amazonian, Atlantic Forest             |                | EN       |
| Inga conchifolia L.P. Queiroz          | Arb.   | MF 600 | ML 1097| Atlantic Forest                        |                | VU       |
| Inga gracielae (Vinha) T.D.Penn.       | Arb.   | MF 600 | ML 1097| Atlantic Forest                        |                |          |
| Inga marginata Willd.                  | Arb.   | MC 488 | MC 424 | Amazonian, Cerrado, Atlantic Forest    |                |          |
| Inga tenuis (Vell.) Mart.              | Arb.   | ML 1108| ML 669 | Atlantic Forest                        |                |          |
| Inga thibaudiana DC.                   | Arb.   | MF 801 | SPL   | Amazonian, Caatinga, Cerrado, Atlantic |                |          |
| Machaerium sp.1                        | Clim.  | AA 8161| SPL   | Atlantic Forest                        |                |          |
| Machaerium saltmannii Benth.           | Clim.  | RP 706 | SPL   | Atlantic Forest                        |                |          |
| Macrolobium latifolium Vogel           | Arb.   | PF 1639| PF 1820| Atlantic Forest                        |                |          |
| Ormosia fastigiata Tul.                | Arb.   | ML 313 | SPL   | Cerrado, Atlantic Forest               |                |          |
| Pelogyne confertiflora (Mart. ex Hayne)Benth. | Arb.   | RP 711 | SPL   | Caatinga, Cerrado, Atlantic Forest    |                |          |
| Phanera sp. 1                          | Clim.  | MC 704 | SPL   | Atlantic Forest                        |                |          |
| Phanera sp.2                           | Clim.  | MC 839 | SPL   | Atlantic Forest                        |                |          |
| Phanera smilacina (Schott) Vaz         | Clim.  | MC 728 | SPL   | Atlantic Forest                        |                |          |
| Piptadenia adiantoides (Spreng.) J.F.Macbr.| Arb.   | AA 8127| SPL   | Caatinga, Cerrado, Atlantic Forest    |                |          |
| Platthyenia reticulata Benth.          | Arb.   | MC 864 | AA s.n.| Amazonian, Caatinga, Cerrado, Atlantic|                |          |
| Senegalia grandistipula (Benth.) Seigler & Ebiner | Shr.   | MC 489 | LD 431| Atlantic Forest                        |                |          |
| Senegalia martiusiana (Steud.) Seigler & Ebiner | Arb.   | PF 2907| SPL   | Caatinga, Atlantic Forest             |                |          |
| Senna affinis (Benth.) H.S.Irwin & Barneby | Shr.   | JP 896 | AA 4091| Cerrado, Atlantic Forest              |                |          |
| Senna splendida (Vogel) H.S.Irwin & Barneby | Shr.   | MC 716 | SPL   | Caatinga, Cerrado, Atlantic Forest    |                |          |
| Swartzia simplex (Sw.) Spreng. var. continentalis Urb. | Arb.   | JP 494 | SPL   | Atlantic Forest                        |                |          |
| GENTIANACEAE                           |        |       |       |                                       |                |          |
| Chelonanthus purpurascens (Aubl.) Struve | Herb.  | MC 783 | SPL   | Amazonian, Caatinga, Cerrado, Atlantic|                |          |
| Macrocarpaea atlantica J.R. Grant & V. Trunz | Shr.   | MC 596 | AA 4792| Atlantic Forest                        |                |          |
| Macrocarpaea orbiculata J.R.Grant & V.Trunz | Shr.   | MC 596 | PF 2638| Atlantic Forest                        |                |          |
| Voyria aphylla (Jacq.) Pers.           | Herb.  | RP 128 | SPL   | Amazonian, Cerrado, Atlantic Forest    |                |          |
| Voyria flavescens Griseb.              | Herb.  | AA 4237| SPL   | Amazonian, Atlantic Forest             |                |          |
| Voyria obconica Progel                 | Herb.  | MC 516 | JJ 4769| Atlantic Forest                        |                |          |

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| Family/Species | Habit  | SCO  | SPL  | Phytogeographic Domain        | New Occurrence | Threat |
|---------------|--------|------|------|--------------------------------|----------------|--------|
| Voyria tenella Hook. | Herb.  | RB 712 |      | Amazonian, Cerrado, Atlantic Forest |                |        |
| GESNERIACEAE |        |      |      |                                |                |        |
| Besleria flavovirens Nees & Mart. | Sub-shr. | MC 505 | PF 1853 | Amazonian, Atlantic Forest |                |        |
| Codonanthe cordifolia Chautems | Epip.  | AA 4526 |      | Cerrado, Atlantic Forest |                |        |
| Codonanthe gracilis (Mart.) Hanst. | Epip.  | WT 14163 | AA 4907 | Atlantic Forest |                |        |
| Codonanthe uleana Fritsch | Epip.  | MC 620 | PF 1919 | Amazonian, Atlantic Forest |                |        |
| Columnea sanguinea (Pers.) Hanst. | Epip.  | WT 14173 | AA 4203 | Amazonian, Cerrado, Atlantic Forest |                |        |
| Nematanthus albus Chautems | Epip.  | LM 4896 | AA 4907 | Atlantic Forest |                |        |
| Nematanthus corticola Schrad. | Epip.  | MC 570 | AA 4777 | Atlantic Forest |                |        |
| Nematanthus lanceolatus (Poir.) Chautems | Epip.  | MC 778 |      | Cerrado, Atlantic Forest |                |        |
| Sinningia barbata (Nees & Mart.) G.Nicholson | Herb.  | AA 4848 |      | Caatinga, Atlantic Forest |                |        |
| Sinningia brasiliensis (Regel & E.Schmidt) Wiehler & Chautems | Herb.  | MC 571 |      | Caatinga, Atlantic Forest |                |        |
| Sinningia nordestina Chautems, Baracho & Siqueira-Filho | Herb.  | DC 2141 |      | Caatinga, Atlantic Forest |                |        |
| HELICONIACEAE |        |      |      |                                |                |        |
| Heliconia sp.1 | Herb.  | AA 4245 |      | Atlantic Forest |                |        |
| Heliconia angusta Vell. | Herb.  | JJ 4661 | RP 855 | Atlantic Forest | Anexo I |        |
| Heliconia richardiana Miq. | Herb.  | WT 14144 | PF 1538 | Amazonian, Atlantic Forest |                |        |
| Heliconia spathocircinata Aristeg. | Herb.  | RB 555 |      | Amazonian, Caatinga, Atlantic Forest, Pantanal |                |        |
| HYPERICACEAE |        |      |      |                                |                |        |
| Vismia guianensis (Aubl.) Choisy | Arb.  | JP 857 | ML 687 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| IRIDACEAE |        |      |      |                                |                |        |
| Neomarica sp.1 | Herb.  | RB 499 |      | Atlantic Forest |                |        |
| LACISTEMATACEAE |        |      |      |                                |                |        |
| Lacistema robustum Schnizl. | Arb.  | ML 1090 |      | Cerrado, Atlantic Forest |                | LR lc |
| LAMIACEAE |        |      |      |                                |                |        |
| Aegiphila vitelliniflora Walp. | Clim.  | JP 905 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| Hyptis cf. atrorubens Poit. | Sub-shr. | AA 4239 |      | Amazonian, Atlantic Forest |                |        |
| LAURACEAE |        |      |      |                                |                |        |
| Aiouea laevis (Mart.) Kosterm. | Arb.  | MC 841 |      | Amazonian, Atlantic Forest |                |        |
| Aniba intermedia (Meisn.) Mez | Arb.  | MC 597 |      | Atlantic Forest |                |        |

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| Family/Species                  | Habit | SCO   | SPL   | Phytogeographic Domain          | New Occurrence | Threat |
|-------------------------------|-------|-------|-------|---------------------------------|----------------|--------|
| Cryptocarya velloziana P.L.R.Moraes | Arb.  | JP 802| SPL   | Atlantic Forest                 |                |        |
| Licaria bahiana Kurz          | Arb.  | LM 4910| PF 1781| Atlantic Forest                 |                |        |
| Ocotea sp. 1                  | Arb.  | LM 1139|       | Atlantic Forest                 |                |        |
| Ocotea sp. 2                  | Arb.  | JP 832 | SPL   | Atlantic Forest                 |                |        |
| Ocotea aciphylla (Nees & Mart.) Mez | Arb.  |        | PF 2645| Amazonian, Cerrado, Atlantic Forest | LR lc          |        |
| Ocotea cernea (Nees) Mez      | Arb.  | MC 565 | Jj 4781| Amazonian, Cerrado, Atlantic Forest |                |        |
| Ocotea daphnifolia (Meisn.) Mez| Arb.  | WT 14158| ML 668 | Atlantic Forest                 |                |        |
| Ocotea aff. deflexa Rohwer    | Arb.  | MC 432 |       | Amazonian, Atlantic Forest       |                |        |
| Ocotea dispersa (Nees & Mart.) Mez | Arb.  |        | PF 1774| Atlantic Forest                 |                |        |
| Ocotea divaricata (Nees) Mez  | Arb.  | MC 376 | ML 1102| Atlantic Forest                 |                |        |
| Ocotea indecora (Schott) Mez  | Arb.  |        | LD 436| Atlantic Forest                 |                |        |
| Ocotea cf. insignis Mez       | Arb.  | MC 581 |       | Cerrado, Atlantic Forest         |                |        |
| Ocotea nitida (Meisn.) Rohwer | Arb.  |        | ML 346 | Amazonian, Atlantic Forest       |                |        |
| Ocotea notata (Nees & Mart.) Mez| Arb.  | RB 457 | SPL   | Amazonian, Caatinga, Atlantic Forest | LR lc         |        |
| Ocotea puberula (Rich.) Nees  | Arb.  | MC 498 | SPL   | Amazonian, Atlantic Forest       |                |        |
| Ocotea tabacifolia (Meisn.) Rohwer | Arb.  | RB 538 | AA 4233| Amazonian, Atlantic Forest       |                |        |
| Ocotea cf. velloziana (Meisn.) Mez | Arb.  | RP 852 | AA 4232| Caatinga, Cerrado, Atlantic Forest |                |        |
| Persea americana Mill.        | Arb.  | JP 893 | AA 4232| Atlantic Forest                 |                |        |
| Rhodostemonodaphne sp. 1      | Arb.  | RB 448 | PF 1792| Atlantic Forest                 |                |        |
| LECYTHIDACEAE                 |       |       |       |                                  |                |        |
| Cariniana estrellensis (Raddi) Kuntze | Arb.  | JP 506|       | Amazonian, Cerrado, Atlantic Forest |                |        |
| Lecythis lanceolata Poir.     | Arb.  |        | PF 1843| Atlantic Forest                 |                |        |
| Lecythis pisonis Cambess.     | Arb.  | MC 765 |       | Amazonian, Atlantic Forest       |                |        |
| LINACEAE                      |       |       |       |                                  |                |        |
| Roucheria columbiana Hallier  | Arb.  | MC 875| ML 1159| Amazonian, Atlantic Forest       |                |        |
| LINDENIACEAE                  |       |       |       |                                  |                |        |
| Cubitanthus alatus (Cham. & Schltdl.) Barringer | Herb. | MC 446|       | Atlantic Forest                 |                |        |
| LOASACEAE                     |       |       |       |                                  |                |        |
| Aosa parviflora (Schrad. ex DC.) Weigend | Herb. |       | AA 4225| Atlantic Forest                 |                |        |
| LOGANIACEAE                   |       |       |       |                                  |                |        |
| Spigelia sp. 1                | Herb. |       | RB 569 | Atlantic Forest                 |                |        |
| Spigelia laurina Cham. & Schltdl. | Sub-shr.| ML 1262| Atlantic Forest |                |        |
| Strychnos sp.1                | Clim. |       | AA 8146| Atlantic Forest                 |                |        |
| LORANTHACEAE                  |       |       |       |                                  |                |        |
| Phthirusa clandestina (Mart.) Mart. | Hemi-par.|      | PF 1525| Atlantic Forest                 |                |        |

Continued on next page
| Family/Species                   | Habit   | SCO      | SPL    | Phytogeographic Domain                | New Occurrence                               | Threat                  |
|---------------------------------|---------|----------|--------|---------------------------------------|-----------------------------------------------|-------------------------|
| *Struthanthus* sp.1              | Hemi-par.| AA 8124  | ML 316 | Atlantic Forest                       |                                               |                         |
| *Struthanthus polyrhizae* (Mart.) Mart. | Hemi-par.| MC 722  |        | Amazonian, Cerrado, Atlantic Forest   |                                               |                         |
| *Struthanthus salicifolius* Mart. | Hemi-par.| MC 865  |        | Cerrado, Atlantic Forest              |                                               |                         |
| **MALPIGHIACEAE**                |         |          |        |                                       |                                               |                         |
| *Amorimia rigida* (A.Juss.) W.R.Anderson | Shr.    | AA 4102  |        | Atlantic Forest                       |                                               |                         |
| *Banisteriopsis sp.1*            | Clim.   | AA 4104  |        | Atlantic Forest                       |                                               |                         |
| *Banisteriopsis membranifolia* (A.Juss.) B.Gates | Clim.  | RB 441   | PF 1539| Amazonian, Atlantic Forest             |                                               |                         |
| *Byroninna sestreae* DC.         | Arb.    | MC 872   |        | Caatinga, Cerrado, Atlantic Forest    |                                               |                         |
| *Byroninna stipulacea* A.Juss.   | Arb.    | MC 872   |        | Amazonian, Cerrado, Atlantic Forest    |                                               |                         |
| *Diplopterys patula* (B.Gates) W.R.Anderson & C.Cav.Davis | Clim. | MC 697  | AA 4838| Atlantic Forest                       |                                               |                         |
| *Heteropterys bullata* Amorim    | Clim.   | WT 14193 | RP 839 | Atlantic Forest                       |                                               | VU anexo II             |
| *Heteropterys imperata* Amorim    | Clim.   | AA 8131  |        | Amazonian, Caatinga, Atlantic Forest  |                                               |                         |
| *Heteropterys macrostachya* A.Juss. | Clim. | AA 4105  |        | Cerrado, Atlantic Forest              |                                               |                         |
| *Heteropterys miuda* (Lam.) DC.   | Clim.   | AA 4105  |        | Atlantic Forest                       |                                               |                         |
| *Hiraea sp. 1*                  | Clim.   | MC 734   |        | Atlantic Forest                       |                                               |                         |
| *Hiraea bullata* W.R.Anderson    | Clim.   | MC 443   | AA 4559| Amazonian, Atlantic Forest             |                                               |                         |
| *Niedenzuela acutifolia* (Cav.) W.R. Anderson | Shr. | MC 555 | AA 4524| Amazonian, Atlantic Forest             |                                               |                         |
| *Sigmaphyllon sp.1*              | Clim.   | MC 422   |        | Atlantic Forest                       |                                               |                         |
| *Sigmaphyllon blanchetii* C.E. Anderson | Clim. | ML 1109 | PF 1920| Caatinga, Cerrado, Atlantic Forest    |                                               |                         |
| *Sigmaphyllon saizmannii* A.Juss. | Clim. | MC 711 |        | Atlantic Forest                       |                                               |                         |
| *Teiropitys phlooides* (Spreng.) Nied. | Clim. | MC 682 | AA 4871| Amazonian, Caatinga, Cerrado, Atlantic Forest |                                           |                         |
| **MALVACEAE**                    |         |          |        |                                       |                                               |                         |
| *Ceiba ventricosa* (Nees & Mart.) Ravena | Arb.  | MC 690   |        | Caatinga, Cerrado, Atlantic Forest    |                                               |                         |
| *Eriotheca globosa* (Aubl.) A. Robyns | Arb. | MC 395 | ML 657 | Amazonian, Cerrado, Atlantic Forest    | Caatinga, Cerrado, Atlantic Forest            |                         |
| *Helicteres ovalis* Lam.         | Shrub.  | MC 451   |        | Atlantic Forest                       |                                               |                         |
| *Hydrogaster trinervis* Kuhlm.   | Arb.    | MC 718   |        | Atlantic Forest                       |                                               |                         |
| *Pachira glabra* Pasq.           | Arb.    | MC 721   | WT 14287| Caatinga, Cerrado, Atlantic Forest    |                                               |                         |
| *Pavonia castaneifolia* A.St.-Hil. & Naudin | Herb. | MC 693 |        | Atlantic Forest                       |                                               |                         |
| *Pavonia fruticosa* (Mill.) Fawc. & Rendle | Sub-shr.|        | AA 4882| Amazonian, Atlantic Forest             |                                               |                         |
| *Pavonia cf. morii* Krapov        | Shrub.  | ML 716   |        | Atlantic Forest                       |                                               |                         |
| *Pseudobombax grandiflorum* (Cav.) A.Robyns | Arb.  | MC 726   |        | Cerrado, Atlantic Forest              |                                               |                         |
| *Quararibea sp.1*                | Arb.    | MC 826   |        | Atlantic Forest                       |                                               |                         |
| *Quararibea penduliflora* (A.St.-Hil.) K.Schum. | Arb. | MC 572 |        | Atlantic Forest                       |                                               |                         |
| *Sterculia excelsa* Mart.        | Arb.    | MC 676   |        | Amazonian, Atlantic Forest             |                                               |                         |
| *Triumfetta semitriloba* Jacq.    | Sub-shr.| MC 805   |        | Amazonian, Caatinga, Cerrado, Atlantic Forest |                                           |                         |

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Table 1. Continued.

| Family/Species                        | Habit  | SCO | SPL   | Phytogeographic Domain          | New Occurrence         | Threat    |
|---------------------------------------|--------|-----|-------|----------------------------------|------------------------|-----------|
| **MARANTACEAE**                       |        |     |       |                                  |                        |           |
| Calathea sp. 1                        | Herb.  | MC 417 | Atlantic Forest             |                      |            |
| Calathea ciliata (Roscoe) K.Schum.    | Herb.  | MC 469 | Atlantic Forest             |                      |            |
| Calathea rotundifolia Körn.           | Herb.  | ML 390 | Atlantic Forest             |                      |            |
| Calathea zebrina (Sims) Lindl.        | Herb.  | RB 546 | Atlantic Forest             |                      |            |
| Monotagma gracilatam Hagberg         | Herb.  | RB 563 | ML 1157 | Atlantic Forest            |                      |           |
| Stromanthe portaeae Griseb.          | Sub-shr.| PF 1616 | Atlantic Forest           |                      |            |
| Stromanthe tonekait (Aubl.) Eichler   | Sub-shr.| DC 2144 | ML 1156 | Amazonian, Caatinga, Atlantic Forest |            |           |
| **MARCGRAVIACEAE**                    |        |     |       |                                  |                        |           |
| Marcgravia polyantha Delpino          | Hemiep.| AA 4250 | Cerrado, Atlantic Forest     |                      | North     |
| Schwartzia jucuensis Gir.-Cañas       | Hemiep.| PF 1850 | Atlantic Forest             |                      | North     |
| **MELASTOMATACEAE**                   |        |     |       |                                  |                        |           |
| Bertolonia sp. 1                      | Epip.  | RB 461 | AA 4521 | Atlantic Forest            |                      |           |
| Bertolonia sp. 2 *                    | Herb.  | MC 477 | AA 4831 | Atlantic Forest            |                      |           |
| Bertolonia bultata Baumgratz, Amorim & A.B.Jardim * | Epip. *| MC 389 | AA 4861 | Atlantic Forest            |                      |           |
| Bertolonia carmoi Baumgratz           | Epip.  | MC 389 | AA 4861 | Atlantic Forest            |                      |           |
| Bertolonia marmorata (Naudin) Naudin  | Herb.  | MC 359 | AA 4861 | Atlantic Forest            |                      |           |
| Clidemia capiliflora (Naudin) Cogn.  | Shr.   | PF 1614 | Cerrado, Atlantic Forest     |                      |           |
| Clidemia dentata D. Don              | Shr.   | PF 1614 | Amazonian, Caatinga, Cerrado, Atlantic Forest |            |           |
| Clidemia hirta (L.) D. Don            | Sub-shr.| MC 575 | Amazonian, Caatinga, Cerrado, Atlantic Forest |            |           |
| Conostegia icosandra (Sw.) Urb.       | Arp.   | JP 764 | Atlantic Forest             |                      |           |
| Graffenrieda intermedia Triana        | Arp.   | RP 127 | ML 1103 | Amazonian, Atlantic Forest     |                      |           |
| Huberia consimilis Baumgratz          | Arp.   | RB 383 | ML 682  | Cerrado, Atlantic Forest       |                      |           |
| Leandra sp. 1                         | Shr.   | MC 608 | Atlantic Forest             |                      |           |
| Leandra aff. carassana (DC.) Cogn.    | Arp.   | AA 4819 | Cerrado, Atlantic Forest     |                      |           |
| Leandra clidemioides (Naudin) Wurdack | Shr.   | ML 682 | Atlantic Forest             |                      |           |
| Leandra cuneata (Mart.) Cogn.         | Arp.   | PF 1823 | Atlantic Forest             |                      |           |
| Leandra dasytricha (A. Gray) Cogn.    | Arp.   | PF 1901 | Atlantic Forest             |                      |           |
| Leandra ionopogon (Mart.) Cogn.       | Shr.   | AA 4789 | Cerrado, Atlantic Forest     |                      |           |
| Leandra laevigata (Triana) Cogn.      | Shr.   | WT 14297 | Atlantic Forest            |                      |           |
| Leandra melastomoides Raddi           | Shr.   | AA 4539 | Cerrado, Atlantic Forest     |                      |           |
| Leandra rhamifolia (Naudin) Cogn.     | Sub-shr.| RB 521 | Amazonian, Atlantic Forest   |                      |           |
| Miconia calvescens DC.                | Arp.   | RM 659 | AA 4234 | Amazonian, Cerrado, Atlantic Forest |          |           |
| Miconia centrodesma Naudin            | Arp.   | AA 4803 | Amazonian, Atlantic Forest   |                      |           |
| Miconia chartacea Triana              | Arp.   | MC 353 | WT 14305 | Cerrado, Atlantic Forest       |                      |           |
| Miconia dodecandra Cogn.              | Arp.   | AA 4214 | Amazonian, Cerrado, Atlantic Forest |            |           |
| Miconia dorsialporosa R.Goldenb. & Reginato | Arp. | JP 851 | Atlantic Forest             |                      |           |
| Miconia holosericea (L.) DC.          | Shr.   | MC 860 | Amazonian, Cerrado, Atlantic Forest |            |           |

Continued on next page
| Family/Species                | Habit   | SCO   | SPL  | Phytogeographic Domain                  | New Occurrence | Threat |
|------------------------------|---------|-------|------|-----------------------------------------|----------------|--------|
| *Miconia octopetala* Cogn.   | Arb.    | RB 405| ML 1105| Atlantic Forest                         |                |        |
| *Miconia prasina* (Sw.) DC.  | Arb.    | RP 861|       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Miconia aff. rimulis* Naudin| Arb.    | MC 731| ML 697| Caatinga, Cerrado, Atlantic Forest      |                |        |
| *Miconia ruficalyx* Gleason  | Arb.    | RP 120| PF 2639| Amazonian, Atlantic Forest              |                |        |
| *Miconia tristis* Spring     | Shr.    | PF 2936| ML 671| Cerrado, Atlantic Forest                |                |        |
| *Ossaea angustifolia* (DC.) Triana | Shr.    | MC 632| WT 14302| Atlantic Forest                         |                |        |
| *Tibouchina arborea* (Gardner) Cogn. | Arb.   | ML 304| Atlantic Forest                         |                |        |
| *Tibouchina fissinervia* (Schrank & Mart. ex DC.) Cogn. | Arb.    | JP 846| AA 4787| Cerrado, Atlantic Forest                |                |        |
| **MELIACEAE**                |         |       |      |                                         |                |        |
| *Cabralea canjerana* (Vell.) Mart. subsp. canjerana | Arb.    | JP 897| ML 1087| Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Guarea blanchetii* C.DC.    | Arb.    | ML 729| PF 1529| Atlantic Forest                         |                |        |
| *Guarea kunthiana* A. Juss.  | Arb.    | PF 2931| MC 522| Amazonian, Cerrado, Atlantic Forest     | EN             |        |
| *Trichilia lepidota* Mart.   | Arb.    | JP 906| JP 773| Atlantic Forest                         |                |        |
| *Trichilia tetrapetala* C.DC. | Arb.    | MC 461| ML 330| Atlantic Forest                         | EN             |        |
| **MENISPERMACEAE**           |         |       |      |                                         |                |        |
| *Anomospermum reticulatum* (Mart.) Eichler | Clim.   | AA 4856|      | Amazonian, Atlantic Forest             |                |        |
| *Chondodendron microphyllum* (Eichl.) Mold. | Clim.   | MC 471|      | Atlantic Forest                         |                |        |
| *Disciphania hermannia* (Vell.) Barneby | Clim.   | MC 874|      | Atlantic Forest                         |                |        |
| **MONIMIACEAE**              |         |       |      |                                         |                |        |
| *Mollinedia* sp. 1           | Shr.    | ML 1118| PF 1818| Atlantic Forest                         |                |        |
| *Mollinedia* sp. 2           | Shr.    | MC 507|      | Atlantic Forest                         |                |        |
| *Mollinedia oligantha* Perkins | Arb.    | ML 1122| JP 499| Atlantic Forest                         |                |        |
| **MORACEAE**                 |         |       |      |                                         |                |        |
| *Clarisia ilicifolia* (Spreng.) Lanj. & Rossberg | Arb.    | MC 543|      | Amazonian, Atlantic Forest             |                |        |
| *Dorstenia bahiensis* Klotzsch ex Fisch. & C.A.Mey. | Herb.   | AA 4238|      | Atlantic Forest                         |                |        |
| *Dorstenia hirta* Desv.       | Herb.   | AA 4707| WT 14295| Atlantic Forest                        |                |        |
| *Dorstenia setosa* Moric.     | Herb.   | AA 4708|      | Atlantic Forest                         |                |        |

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Table 1. Continued.

| Family/Species | Habit | SCO  | SPL  | Phytogeographic Domain                      | New Occurrence | Threat |
|----------------|-------|------|------|---------------------------------------------|----------------|--------|
| *Ficus arpa- zusa* Casar. | Arb. | PF 2913 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Ficus bahiensis* C.C. Berg & Carauta | Arb. | ML 1281 | Caatinga, Cerrado, Atlantic Forest |                |        |
| *Ficus citrifolia* Mill. | Arb. | MC 460 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Ficus cyclophylla* (Miq.) Miq. | Arb. | AA 8157 | Atlantic Forest |                |        |
| *Ficus hirsuta* Schott | Arb. | JP 862 | Caatinga, Atlantic Forest | LR nt |        |
| *Ficus insipida* Willd. | Arb. | ML 365 | Amazonian, Cerrado, Atlantic Forest |                |        |
| *Ficus nymphaefolia* Mill. | Arb. | MC 770 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Ficus trigona* L.f. | Arb. | MC 743 | RC 1046 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Helicostylis tomentosa* (Poepp. & Endl.) Rusby | Arb. | JP 767 | Amazonian, Caatinga, Atlantic Forest |                |        |
| *Sorocea hilarii* Gaudich. | Arb. | JP 853 | Cerrado, Atlantic Forest |                |        |
| *Sorocea racemosa* Gaudich. | Arb. | MC 750 | AA 4560 | Atlantic Forest |                |        |
| **MYRISTICACEAE** | | | | | | |
| *Virola bicuhyba* (Schott ex Spreng.) Warb. | Arb. | MC 877 | Atlantic Forest |                |        |
| *Virola officinalis* Warb. | Arb. | RB 537 | Atlantic Forest |                |        |
| **MYRTEACEAE** | | | | | | |
| Myrtac. sp.1 | Arb. | MC 878 | Atlantic Forest |                |        |
| *Blepharocalyx salicifolius* (Kunth) O.Berg | Arb. | ML 696 | Caatinga, Cerrado, Atlantic Forest, Pampa |                |        |
| *Calypranthes pulchella* DC. | Arb. | WT 14336 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Eugenia* sp. 1 | Arb. | ML 1124 | Atlantic Forest |                |        |
| *Eugenia* sp. 2 | Arb. | MC 556 | Atlantic Forest |                |        |
| *Eugenia adenantha* O. Berg. | Arb. | MC 593 | Atlantic Forest |                |        |
| *Eugenia cerasiflora* Miq. | Arb. | MC 557 | Caatinga, Cerrado, Atlantic Forest |                |        |
| *Eugenia excelsa* O.Berg | Arb. | ML 715 | Amazonian, Atlantic Forest |                |        |
| *Eugenia cf. florida* DC. | Arb. | ML 310 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |        |
| *Eugenia itapemirimensis* Cambess. | Arb. | PF 2911 | PF 1814 | Atlantic Forest |                |        |
| *Eugenia ligustrina* (Sw.) Willd. | Arb. | RP 119 | Amazonian, Caatinga, Cerrado, Atlantic Forest | Bahia |        |
| *Eugenia schottiana* O. Berg. | Arb. | MC 628 | Caatinga, Atlantic Forest |                |        |
| *Eugenia tinguensis* Cambess. | Arb. | LM 4917 | ML 1091 | Atlantic Forest |                |        |
| *Gomidesia* sp. 1 | Arb. | RP 705 | WT 14321 | Atlantic Forest |                |        |
| *Marlierea* sp. 1 | Arb. | DC 2131 | Atlantic Forest |                |        |

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| Family/Species | Habit | Phyto-geographic Domain | New Occurrence | Threat |
|---------------|-------|--------------------------|----------------|--------|
| Marlierea cf. affinis (O.Berg) D. Legrand | Arb. | Atlantic Forest | | |
| Marlierea cf. obversa D. Legrand | Arb. | Atlantic Forest | | |
| Marlierea cf. verticillaris (Vell.) Kiaersk. | Arb. | Atlantic Forest | | |
| Myrceugenia pilotantha (Kiaersk.) Landrum | Arb. | Atlantic Forest | | VU |
| Myrcia cf. bicolor Kiaersk. | Arb. | Atlantic Forest | | |
| Myrcia lascada Sobral | Arb. | Atlantic Forest | | |
| Myrcia multiflora (Lam.) DC. | Arb. | Amazonian, Caatinga, Cerrado, Atlantic Forest | | |
| Myrcia pendula Sobral | Arb. | Atlantic Forest | | |
| Myrcia pubescens DC. | Arb. | Caatinga, Cerrado, Atlantic Forest | | |
| Myrcia racemosa (O.Berg) Kiaersk. | Arb. | Atlantic Forest | | |
| Myrcia spectabilis DC. | Arb. | Atlantic Forest | | |
| Neea floribunda Poepp. & Endl. | Shr. | Amazonian, Atlantic Forest | | |
| Neea laxa Poepp. & Endl. | Shr. | Amazonian, Atlantic Forest | | |
| Nyctaginaceae | | | | |
| Guapira sp. 1 | Arb. | Atlantic Forest | | |
| Guapira sp. 2 | Arb. | Atlantic Forest | | |
| Guapira cf. obtusata (Jacq.) Little | Arb. | Atlantic Forest | | |
| Neea floribunda Poepp. & Endl. | Shr. | Amazonian, Atlantic Forest | | |
| Neea laxa Poepp. & Endl. | Shr. | Amazonian, Atlantic Forest | | |
| Ochnaceae | | | | |
| Ochna sp. 1 | Arb. | Atlantic Forest | | |
| Ochna velutina (Vell. ex A.St.-Hil.) Sastre | Arb. | Atlantic Forest | | |
| Olacaceae | | | | |
| Tetrapetalum grandifolium (Baill.) Sleumer | Arb. | Cerrado, Atlantic Forest | | |
| Oleaceae | | | | |
| Chionanthus micranthus (Mart.) Lozano & Fuertes | Arb. | Atlantic Forest | | |
| Onagraceae | | | | |
| Fuchsia regia (Vell.) Munz | Arb. | Atlantic Forest | | |
| Orchidaceae | | | | |
| Family/Species | Habit | SCO | SPL | Phytogeographic Domain | New Occurrence | Threat |
|----------------|-------|-----|-----|------------------------|----------------|--------|
| *Acianthera saundersiana* (Rchb.f.) Pridgeon & M.W.Chase | Epip. | JP 894 |  | Caatinga, Cerrado, Atlantic Forest |
| *Alatiglossum ciliatum* (Lindl.) Baptista | Herb. | MC 419 |  | Atlantic Forest |
| *Alatiglossum longipes* (Lindl.) Baptista | Epip. | MC 478 |  | Atlantic Forest |
| *Anathallis sclerophylla* (Lindl.) Pridgeon & M.W.Chase | Epip. | MC 678 | AA 4083 | Caatinga, Cerrado, Atlantic Forest |
| *Aspidogyne argentea* (Vell.) Garay | Herb. | JP 917 | PF 1834 | Cerrado, Atlantic Forest |
| *Aspidogyne foliosa* (Poepp. & Endl.) Garay | Herb. | ML 342 |  | Amazonian, Atlantic Forest |
| *Baptistonia silvana* (V.P.Castro & Campacci) | Epip. | ML 1121 |  | Atlantic Forest |
| *Bifrenaria calcarata* Barb.Rodr. | Epip. | RP 86 |  | Atlantic Forest |
| *Brasiliella grandis* (Lindl. & Paxton) Gutfreund | Epip. | MC 404 |  | Amazonian, Atlantic Forest |
| *Brassia arachnoides* Barb.Rodr. | Epip. | MC 714 |  | Cerrado, Atlantic Forest |
| *Bulbophyllum cf. exaltatum* Lindl. | Epip. | MC 369 |  | Caatinga, Cerrado, Atlantic Forest |
| *Campylocentrum linearifolium* Cogn. | Epip. | AF 2625 | PF 1576 | Amazonian, Atlantic Forest |
| *Campylocentrum robustum* Cogn. | Epip. | PF 2750 |  | Amazonian, Cerrado, Atlantic Forest |
| *Cattleya warneri* T.Moore | Herb. | MC 445 |  | VU |
| *Coppenisia flexuosa* (Sims) Campacci | Epip. | ML 1135 | PF 1810 | Atlantic Forest |
| *Coppenisia hookeri* (Rolfe) F.Barros & L.Guimarães | Epip. | AF 2644 |  | Atlantic Forest |
| *Coryanthes sp. 1* | Herb. | MC 472 | AA 4537 | Cerrado, Atlantic Forest |
| *Cyrtopodium flavum* Link & Otto ex Rchb.f. | Herb. | AF 2636 |  | Atlantic Forest |
| *Dichaea cogniauxiana* Schltr. | Epip. | JP 874 |  | Atlantic Forest |
| *Elleanthus brasiliensis* (Lindl.) Rchb.f. | Herb. | ML 1164 |  | Cerrado, Atlantic Forest |
| *Elleanthus linearifolius* C. Presl | Epip. | RP 102 | ML 1161 | Amazonian, Atlantic Forest |
| *Encyclia patens* Hook. | Epip. | MC 428 |  | Cerrado, Atlantic Forest |
| *Epidendrum sp. 1* | Epip. | AF 2628 |  | Atlantic Forest |
| *Epidendrum densiflorum* Lindl. | Epip. | MC 684 |  | Amazonian, Cerrado, Atlantic Forest |
| *Epidendrum flexuosum* G.Mey. | Epip. | AF 2600 |  | Amazonian, Cerrado, Atlantic Forest |
| *Epidendrum paraense* Barb.Rodr. | Epip. | RP 95 | JP 583 | Caatinga, Cerrado, Atlantic Forest |
| *Epidendrum proligerum* Barb.Rodr. | Epip. | ML 674 |  | Atlantic Forest |
| *Epidendrum ramosum* Jacq. | Epip. | AA 4808 |  | Cerrado, Atlantic Forest |
| *Epidendrum rigidum* Jacq. | Herb. | MC 496 |  | Amazonian, Caatinga, Cerrado, Atlantic Forest |
| *Epidendrum saxatile* Lindl. | Herb. | PF 1572 |  | Caatinga, Cerrado, Atlantic Forest |

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| Family/Species                        | Habit | SCO  | SPL  | Phytogeographic Domain            | New Occurrence | Threat                  |
|--------------------------------------|-------|------|------|-----------------------------------|----------------|-------------------------|
| Epidendrum secundum Jacq.            | Epip. | AF 2638 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                         |
| Gomesa handroi (Hoehne) Pabst         | Epip. | WT 14310 |      | Atlantic Forest                  | Northeast      |                         |
| Gomesa recurva Barb.Rodr.             | Epip. * | MC 585 | AF 2613 | Cerrado, Atlantic Forest         |                |                         |
| Heterotaxis brasiliensis (Brieger & Illg) F.Barros | Epip. | ML 1276 | ML 664 | Atlantic Forest                  |                |                         |
| Houltia brocklehuriana Lindl.         | Epip. | MC 641 |      | Atlantic Forest                  |                |                         |
| Huntleya meleagris Lindl.             | Epip. | AA 4877 |      | Atlantic Forest                  |                |                         |
| Isochilus linearis (Ruiz & Pav.) R.Br. | Epip. | AF 2627 |      | Cerrado, Atlantic Forest         |                |                         |
| Jacquiniella globosa (Jacq.) Schltr.  | Epip. | MC 771 | ML 1167 | Amazonian, Atlantic Forest       |                |                         |
| Liparis nervosa (Thumb.) Lindl.       | Herb. | JP 887 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                         |
| Lockhartia lanifera (Lindl.) Rchb.f.  | Epip. | MC 533 |      | Amazonian, Atlantic Forest        |                |                         |
| Malaxis excavata (Lindl.) Kuntze      | Herb. | ML 726 | AA 4073 | Cerrado, Atlantic Forest         |                |                         |
| Maxillaria leucaimata Barb. Rodr.     | Epip. | RP 98 | PF 1573 | Amazonian, Atlantic Forest       |                |                         |
| Maxillaria ochroleuca Lodd. ex Lindl. | Epip. | ML 688 |      | Amazonian, Cerrado, Atlantic Forest |                |                         |
| Maxillaria cf. Rodriguesii Cogn.      | Epip. | RP 103 |      | Atlantic Forest                  | Northeast      |                         |
| Maxillariella robusta (Barb.Rodr.) M.A. Blanco & Carnevali | Epip. | AA 4706 |      | Atlantic Forest                  | Northeast      |                         |
| Microchilus arietinus (Rchb.f. & Warm.) Ormerod | Herb. | ML 352 |      | Cerrado, Atlantic Forest         | Northeast      |                         |
| Microchilus lamprophyllus (Rchb.f. & Warm.) Ormerod | Herb. | AF 2624 | ML 690 | Atlantic Forest                  |                |                         |
| Myoxanthus punctatus (Barb. Rodr.) Luer | Epip. | MC 569 |      | Atlantic Forest                  | Northeast      |                         |
| Nididobulbun nasatum (Rchb.f.) Ojeda & Carnevali | Epip. | RP 101 | AA 4541 | Amazonian, Atlantic Forest       |                |                         |
| Octomeria crassifolia Lindl.          | Epip. | AF 2643 | PF 1559 | Atlantic Forest                  |                |                         |
| Octomeria tricolor Rchb.f.            | Epip. | RP 93 | JJ 4768 | Atlantic Forest                  |                |                         |
| Oeceoclades maculata (Lindl.) Lindl.   | Herb. | RP 87 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                         |
| Ornithidium rigidum (Barb.Rodr.) M.A. Blanco & Ojeda | Epip. | ML 1274 |      | Amazonian, Atlantic Forest        | Northeast      |                         |
| Pabstiella carinifera (Barb.Rodr.) Luer | Epip. | LD 332 |      | Atlantic Forest                  | Northeast      |                         |
| Pabstiella rampastorhyncha (Barb. Rodr.) L. Kollmann | Epip. | RP 106 |      | Atlantic Forest                  |                |                         |
| Platystele sp.1                       | Epip. | AA 4839 |      | Atlantic Forest                  |                |                         |
| Pleurothallis sp.1                    | Epip. | AA 4810 |      | Atlantic Forest                  |                |                         |
| Pleurothallis ruscifolia (Jacq.) R.Br. | Epip. | RP 88 |      | Amazonian, Atlantic Forest       |                |                         |
| Polycyclis silviana F.Barros          | Epip. | AA 4090 |      | Atlantic Forest                  |                |                         |
| Polystachya concreta (Jacq.) Garay & Sweet | Epip. | MC 763 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                         |
| Polystachya estrellensis Rchb.f.      | Epip. | MC 394 | AA 4230 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                         |

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| Family/Species                                      | Habit   | SCO   | SPL  | Phytogeographic Domain                  | New Occurrence          | Threat            |
|----------------------------------------------------|---------|-------|------|-----------------------------------------|-------------------------|-------------------|
| *Prescottia stachyodes* (Sw.) Lindl.               | Herb.   | RP 89 | JP 586 | Amazonian, Caatinga, Atlantic Forest    |                         |                   |
| *Promenaea silvana* F.Barros & Cath.               | Epp.    | MC 532| AA 4207 | Atlantic Forest                         |                         |                   |
| *Prosthechea sp.* I                               | Epp.    | ML 1133 |      | Atlantic Forest                         |                         |                   |
| *Prosthechea bueranemesis* (Campacci) Campacci     | Epp.    | RP 100 |      | Atlantic Forest                         |                         |                   |
| *Prosthechea calamaria* (Lindl.) W.E.Higgins       | Epp.    | ML 1104 |      | Amazonian, Atlantic Forest              |                         |                   |
| *Prosthechea fragrans* (Sw.) W.E.Higgins          | Epp.    | PF 1567 |      | Cerrado, Atlantic Forest                |                         |                   |
| *Prosthechea pachysepala* (Klotzsch) Chiron & V.P.Castro | Epp.    | ML 1272 |      | Atlantic Forest                         |                         |                   |
| *Prosthechea pygmaea* (Hook.) W.E.Higgins         | Epp.    | ML 1264 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                         |                   |
| *Psilochilus modestus* Barb.Rodr.                  | Herb.   | AA 4788 |      | Amazonian, Atlantic Forest              |                         |                   |
| *Rhetinantha notylioglossa* (Rchb.f.) M.A.Blanco   | Epp.    | AF 2632 |      | Amazonian, Atlantic Forest              |                         |                   |
| *Scaphyglottis modesta* (Rchb.f.) Schltr.         | Epp.    | AP 99  | AF 2603 | Amazonian, Caatinga, Atlantic Forest    |                         |                   |
| *Scuticaria hadwenii* (Lindl.) Planch.            | Epp.    | RP 94  |      | Atlantic Forest                         |                         |                   |
| *Sobralia sessilis* Lindl.                         | Epp.    | ML 1264 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                         |                   |
| *Stelis sp.* 1                                     | Epp.    | ML 1263 |      | Atlantic Forest                         |                         |                   |
| *Stelis intermedia* Poepp. & Endl.                | Epp.    | ML 348  |      | Atlantic Forest                         |                         | Northeast         |
| *Stelis megantha* Barb. Rodr.                      | Epp.    | PF 1553 |      | Atlantic Forest                         |                         |                   |
| *Stelis papuquensis* Rechb.f.                      | Epp.    | AA 8139 |      | Atlantic Forest                         |                         | Bahia             |
| *Stigmatosema polyaden* (Vell.) Garay             | Herb.   | WT 14165 |      | Cerrado, Atlantic Forest                |                         | Northeast         |
| *Vanilla cf. bahiana* Hoehne                       | Epp.    | AF 2642 |      | Caatinga, Cerrado, Atlantic Forest      |                         |                   |
| *Vanilla cf. bicolor* Lindl.                       | Epp.    | ML 1277 |      | Amazonian, Atlantic Forest              |                         | Northeast and Atlantic Forest |
| *Xylobium colleyi* (Batem. ex Lindl.) Rolfe        | Ep.     | ML 1269 |      | Amazonian, Atlantic Forest              |                         |                   |
| *Xylobium variegatum* (Ruiz & Pav.) Mansf.        | Ep.     | JP 877  | ML 1165 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                         |                   |
| *Zygopetalum sp.* 1                               | Herb.   | ML 1268 |      | Atlantic Forest                         |                         |                   |
| **PASSIFLORACEAE**                                 |         |       |      |                                         |                         |                   |
| *Passiflora contracta* Vitta                       | Clim.   | MC 673 | ML 677 | Caatinga, Atlantic Forest               |                         |                   |
| *Passiflora nitida* Kunth                          | Clim.   | PF 2924 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                         | Atlantic Forest |
| **PENTAPHYLACEAE**                                 |         |       |      |                                         |                         |                   |
| *Ternstroemia anifolia* Wawra                      | Arb.    | WT 14339 |      | Caatinga, Cerrado, Atlantic Forest      |                         |                   |
| **PERACEAE**                                       |         |       |      |                                         |                         |                   |
| *Pogonophora schomburgiana* Miers ex Benth.       | Shr.    | MC 623  |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                         |                   |
| **PHYLLANTHACEAE**                                 |         |       |      |                                         |                         |                   |
| *Hieronyma oblonga* (Tul.) Müll.Arg.              | Arb.    | JP 801  | AA 4827 | Amazonian, Atlantic Forest              |                         |                   |

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Table 1. Continued.

| Family/Species             | Habit     | SCO   | SPL   | Phytogeographic Domain                          | New Occurrence          | Threat   |
|---------------------------|-----------|-------|-------|------------------------------------------------|-------------------------|----------|
| Margaritaria nobilis L.f. | Arb.      | RB 541| JP 776| Amazonian, Caatinga, Atlantic Forest            |                         |          |
| Phyllanthus gradyi M.J.Silva & M.F.Sales | Arb. | AA 4842|       | Atlantic Forest                                  |                         |          |
| Phyllanthus subemarginatus Müll. Arg. | Sub-shr. | RP 109| AA 4860| Caatinga, Cerrado, Atlantic Forest              |                         |          |
| **PHYTOLACCACEAE**        |           |       |       |                                                 |                         |          |
| Phytolacca thrysiflora Fenzl. ex J.A.Schmidt | Shr. | WT 14190|       | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa |                         |          |
| **PICRAMNIACEAE**         |           |       |       |                                                 |                         |          |
| Picramnia ciliata Mart.   | Arb.      | AA 4423|       | Cerrado, Atlantic Forest                         |                         |          |
| Picramnia glazioviana Engl. | Arb.   | JP 885| ML 672| Atlantic Forest                                  |                         |          |
| **PIPERACEAE**            |           |       |       |                                                 |                         |          |
| Peperomia sp.1            | Epip.     | RB 421| DM 572| Atlantic Forest                                  |                         |          |
| Peperomia sp. Nova        | Herb. *   | RB 419| DM 571| Atlantic Forest                                  |                         |          |
| Peperomia alata Ruiz & Pav. | Epip.  | RB 564|       |                                                | Amazonian, Caatinga, Cerrado, Atlantic Forest |          |
| Peperomia alata (Jacq.) Kunth | Epip.  | ML 1265|       | Amazonian, Cerrado, Atlantic Forest              | Bahia                  |          |
| Peperomia corcovadensis Gardner | Epip.  | AA 4689| PF 2630| Atlantic Forest                                  |                         |          |
| Peperomia emarginella (Sw.) C.D.C. | Epip. | MC 536| MJ 890| Atlantic Forest                                  |                         |          |
| Peperomia hernandiaeoloides (Vahl) A.Dietr. | Epip.  | AA 4783|       | Amazonian, Atlantic Forest                       |                         |          |
| Peperomia macrostachya (Vahl) A.Dietr. | Epip.  | JP 890| PF 1892| Amazonian, Atlantc Forest                        |                         |          |
| Peperomia magnolifolia (Jacq.) A. Dietr. | Epip.  | AA 4712| ML 317| Amazonian, Atlantic Forest                       |                         |          |
| Peperomia obtusifolia (L.) A. Dietr. | Epip.  | ML 714|       |                                                | Amazonian, Caatinga, Cerrado, Atlantic Forest |          |
| Peperomia pemambucensis Miq. | Epip. | PF 1797|       | Atlantic Forest                                  |                         |          |
| Peperomia tetraphylla (G.Forst.) Hook. & Arn. | Epip.  | MC 371| PF 2625| Caatinga, Cerrado, Atlantic Forest              |                         |          |
| Peperomia urocarpa Fisch. & C.A. Mey. | Epip.  | AA 4694|       | Amazonian, Cerrado, Atlantic Forest              |                         |          |
| Piper amplum Kunth        | Shr.      | AA 4711| MJ 880| Amazonian, Caatinga, Cerrado, Atlantic Forest   |                         |          |
| Piper arboreum Aubl.      | Shr.      | AA 4709| MC 436| Amazonian, Caatinga, Cerrado, Atlantic Forest   |                         |          |
| Piper bowiei Yunck.       | Shr.      | MJ 879|       | Atlantic Forest                                  |                         |          |
| Piper caldense C.D.C.     | Shr.      | MC 524|       | Caatinga, Cerrado, Atlantic Forest              |                         |          |
| Piper cernuum Vell.       | Arb.      | MC 590|       | Amazonian, Cerrado, Atlantic Forest              |                         |          |
| Piper dilatatum Rich.     | Shr.      | MJ 885|       | Amazonian, Caatinga, Cerrado, Atlantic Forest   |                         |          |
| Piper eucalyptophyllum C.D.C. | Shr.  | MC 459| MJ 878| Atlantic Forest                                  |                         |          |
| Piper hispidum Sw.        | Shr.      | AA 4713| MJ 887| Amazonian, Cerrado, Atlantic Forest              |                         |          |
| Piper klotzschianum (Kunth) C. DC. | Shr.  | WT 14145|     | Cerrado, Atlantic Forest                          |                         |          |
| Piper malacophyllum (C.Presl) C.D.C. | Shr.  | MC 856|       | Amazonian, Cerrado, Atlantic Forest              |                         |          |

Continued on next page
| Family/Species                  | Habit | SCO | SPL  | Phytogeographic Domain                        | New Occurrence | Threat                   |
|--------------------------------|-------|-----|------|-----------------------------------------------|----------------|--------------------------|
| **Piper mollicomum** Kunth     | Shr.  |     | MJ 884 | Amazonian, Caatinga, Cerrado, Atlantic Forest  |                |                          |
| **Piper mosenii** C.D.C.       | Shrub | AA 4710 | MJ 876 | Atlantic Forest                               |                |                          |
| **Piper robustipedunculum** Yunck. | Shrub | DM 573 | MJ 881 | Cerrado, Atlantic Forest                       |                |                          |
| **Piper sprengelianum** C.D.C. | Shrub | DM 582 |       | Amazonian, Atlantic Forest                     |                |                          |
| **Piper subglabrifolium** C.D.C. | Shrub | DM 577 |       | Amazonian, Atlantic Forest                     |                |                          |
| **Piper umbellatum** L.        | Shrub | MC 525 | MJ 882 | Amazonian, Cerrado, Atlantic Forest            |                |                          |
| **Piper vellosoi** Yunck.      | Shrub | WT 178b |       | Cerrado, Atlantic Forest                       |                |                          |
| **Apocynaceae**                |       |     |      |                                               |                |                          |
| **Alvimia lancifolia** Soderstr. & Londoño | Arb. |     | PO 1224 | Atlantic Forest                               |                |                          |
| **Andropogon bicorns L.**      | Herb. |     | RB 374 | Amazonian, Caatinga, Cerrado, Atlantic Forest  |                |                          |
| **Arberella bahiensis** Soderstr. & Zuloaga | Herb. |     | AA 4843 | Atlantic Forest                               |                |                          |
| **Atractantha aureolanata** Judz. | Arb. | MC 835 |       | Atlantic Forest                               |                |                          |
| **Chusquea sp. 1**             | Arb.  | RP 708 | PO 1223 | Atlantic Forest                               |                |                          |
| **Chusquea aff. attenuata** (Döll) L.G.Clark | Arb. | PO 1220 |       | Atlantic Forest                               |                |                          |
| **Chusquea oxyleepis** (Hack.) Ekman | Arb. | PO 1222 |       | Atlantic Forest                               |                |                          |
| **Dichanthelium** sp. 1        | Herb. |     | PO 1219 | Atlantic Forest                               |                |                          |
| **Eremoeaulus sp. 1**          | Arb.  | ML 1251 | PO 1226 | Atlantic Forest                               |                |                          |
| **Guadua calderoniana** Londoño & Judz. | Arb. | AA 8153 |       | Atlantic Forest                               |                |                          |
| **Ichnanthus** sp. 1           | Herb. | MC 368 | RB 505 | Atlantic Forest                               |                |                          |
| **Ichnanthus hirtus** (Raddi) Chase | Herb. | ML 1260 |       | Caatinga, Cerrado, Atlantic Forest            |                |                          |
| **Ichnanthus leicarpus** (Spreng.) Kunth | Herb. | RB 384 | PO 1215 | Caatinga, Cerrado, Atlantic Forest            |                |                          |
| **Ichnanthus nemoralis** (Schrad. ex Schult.) Hitchc. & Chase | Herb. | MC 761 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                          |
| **Ichnanthus pallens** (Sw.) Munro ex Benth. | Herb. | ML 1261 | PO 1212 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                          |
| **Ichnanthus tenuis** (J.Presl & C.Presl) Hitchc. & Chase | Herb. | PO 1210 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest | Bahia          |                          |
| **Lasiaclus ligulata** Hitchc. & Chase | Shr. | MC 715 | AA 4220 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                          |
| **Merostachys** sp. 1          | Arb.  | MC 848 | PO 1221 | Atlantic Forest                               |                |                          |
| **Merostachys** sp. 2          | Arb.  | WT 14155 |       | Atlantic Forest                               |                |                          |
| **Merostachys leptophylla** Send. | Arb. | MC 760 |       | Atlantic Forest                               |                |                          |
| **Ocellocloca cf. sparsiflora** Rupe. | Arb. | AA 4688 | PF 2651 | Atlantic Forest                               |                |                          |
| **Olyra latifolia** L.         | Herb. | ML 1229 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                          |

Continued on next page
| Family/Species | Habit         | SCO   | SPL   | Phytogeographic Domain                      | New Occurrence | Threat          |
|---------------|---------------|-------|-------|---------------------------------------------|----------------|-----------------|
| Panicum sp.1  | Herb.         | MC 385|       | Atlantic Forest                             |                |                 |
| Panicum sp.2  | Herb.         |       | RB 478| Atlantic Forest                             |                |                 |
| Panicum pilosum Sw. | Herb.       |       | PO 1207| Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal |                |                 |
| Parodiolyra micrantha (Kunth) Davidse & Zuloaga | Herb. | MC 412 |       | Amazonian, Caatinga, Atlantic Forest         |                |                 |
| Parodiolyra ramosissima (Trin.) Soderstr. & Zuloaga | Herb. | ML 1107 |       | Atlantic Forest                             |                |                 |
| Paspalum conjugatum P.J.Bergius | Herb. |       | PO 1211| Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal |                |                 |
| Paspalum corcovadense Raddi | Herb. |       | PO 1209| Cerrado, Atlantic Forest                     |                |                 |
| Paspalum decumbens Sw. | Herb. | ML 1258 |       | Amazonian, Cerrado, Atlantic Forest          |                |                 |
| Paspalum pilosum Lam. | Herb. |       | PO 1217| Amazonian, Caatinga, Cerrado, Atlantic Forest|                |                 |
| Pharax lapulaceus Aubl. | Herb. | RB 523 | PO 1214| Amazonian, Caatinga, Cerrado, Atlantic Forest|                |                 |
| Pseudochinolaena polystachya (Kunth) Stapf | Herb. | MC 688 |       | Cerrado, Atlantic Forest                     |                |                 |
| Schizachyrium condensatum (Kunth) Nees | Herb. | ML 723 |       | Cerrado, Atlantic Forest, Pampa              |                |                 |
| Setaria sp.1  | Herb.         |       | PO 1208| Atlantic Forest                             |                |                 |
| Streptochaeta spicata Schrad. ex Nees | Herb. | ML 1287 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest|                |                 |
| PODOSTEMACEAE |              |       |       |                                              |                |                 |
| Mourera aspera (Bong.) Tul. | Herb. | MC 396 |       | Cerrado, Atlantic Forest, Northeast          |                |                 |
| POLYGALACEAE  |              |       |       |                                              |                |                 |
| Polygala laureola A. St.-Hil. | Sub-shr. | MC 796 | JP 797 | Atlantic Forest                             |                |                 |
| POLYGONACEAE  |              |       |       |                                              |                |                 |
| Coccococa sp. 1 | Clim. | MC 612 |       | Atlantic Forest                             |                |                 |
| Coccococa declinata (Vell.) Mart. | Clim. | ML 733 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest|                |                 |
| PRIMULACEAE   |              |       |       |                                              |                |                 |
| Cybianthus sp. 1 | Shr. | AA 4696|       | Atlantic Forest                             |                |                 |
| Cybianthus amplus (Mez) G. Agostini | Arb. | MC 544 | RP 850| Amazonian, Atlantic Forest                   |                |                 |
| Cybianthus aff. detergens Mart. | Arb. | ML 1123|       | Amazonian, Cerrado, Atlantic Forest          |                |                 |
| Cybianthus peruvianus (A.DC.) Miq. | Arb. | RP 715 | WT 14341| Atlantic Forest                             |                |                 |
| Myrsine sp.1  | Arb.          | MC 627|       | Atlantic Forest                             |                |                 |
| Myrsine guianensis (Aubl.) Kuntze | Arb. | JP 579 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest|                |                 |
| Myrsine leuconeura Mart. | Arb. | JP 563 |       | Cerrado, Atlantic Forest                     |                |                 |
| Myrsine venosa A.DC. | Arb. | MC 797 | ML 349| Cerrado, Atlantic Forest                     |                |                 |

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| Family/Species          | Habit  | SCO   | SPL   | Phytogeographic Domain | New Occurrence | Threat   |
|-------------------------|--------|-------|-------|-------------------------|----------------|----------|
| PROTEACEAE              |        |       |       |                         |                |          |
| *Panopsis multiflora* (Schott) Ducke | Arb.   | RP 847 |       | Atlantic Forest          |                | Northeast|
| QUINACEAE               |        |       |       |                         |                |          |
| *Lacunaria crenata* (Tul.) A.C.Sm. subsp. *decaestyla* (Radlk.) | Arb.   | ML 1117 | PF 1535 | Atlantic Forest          |                |          |
| RHAMNACEAE              |        |       |       |                         |                |          |
| *Rhamnus sphaerosperma* Sw. | Arb.   | RB 458 |       | Cerrado, Atlantic Forest |                |          |
| ROSACEAE                |        |       |       |                         |                |          |
| *Rubus* sp.1            | Clim.  | MC 433 |       | Atlantic Forest          |                |          |
| RUBIACEAE               |        |       |       |                         |                |          |
| *Amaioua* sp.1          | Arb.   | WT 14342 |       | Atlantic Forest          |                |          |
| *Bathysa* sp.1          | Arb.   | PF 1914 |       | Atlantic Forest          |                |          |
| *Bathysa cuspidata* (A. St. Hil.) Hook. f. ex K.Schum. | Arb.   | WT 14188 |       | Cerrado, Atlantic Forest |                |          |
| *Bathysa mendoncaei* K.Schum. | Arb.   | PF 2634 |       | Atlantic Forest          |                |          |
| *Carapichea lucida* J.G. Jardim & Zappi | Shr.   | ML 1238 | ML 683 | Atlantic Forest          |                |          |
| *Chiococca alba* (L.) Hitchc. | Clim. | JP 816 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Coccocypselum aureum* (Spreng.) Cham. & Schltdl. | Herb.  | MC 680 | MC 324 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Coccocypselum cordifolium* Nees & Mart. | Herb. | JP 790 | | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Coccocypselum geophiloides* Wawra | Herb. | JP 789 |       | Atlantic Forest          |                |          |
| *Coccocypselum hasslerianum* Chodat | Herb. | AA 4227 |       | Caatinga, Cerrado, Atlantic Forest |                |          |
| *Coccocypselum lanceolatum* (Ruiuz & Pav.) Pers. | Herb.   | JP 799 |       | Caatinga, Cerrado, Atlantic Forest |                |          |
| *Cordiera* sp. 1        | Shr.   | LM 4914 | ML 1096 | Atlantic Forest          |                |          |
| *Coussarea contracta* (Walp.) Müll.Arg. | Arb. | MC 416 | AA 4836 | Caatinga, Cerrado, Atlantic Forest |                |          |
| *Coussarea graciliflora* (Mart.) Müll.Arg. | Shr. | ML 661 |       | Atlantic Forest          |                |          |
| *Coussarea ilheotica* Müll. Arg. | Arb.  | AA 4705 |       | Atlantic Forest          |                |          |
| *Denscantia cymosa* (Spreng.) E.L. Cabral & Bacigalupo | Cl.  | RP 122 |       | Atlantic Forest          |                |          |
| *Emmeorhyza umbellata* (Spreng.) K. Schum. | Cl. | RP 116 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |          |
| *Faramea* sp. 1         | Shr.   | ML 1119 | PF 1825 | Atlantic Forest          |                |          |
| *Faramea* sp. 2         | Arb.   | MC 629 |       | Atlantic Forest          |                |          |
| *Faramea martiana* Müll.Arg. | Arb. | MC 391 |       | Atlantic Forest          |                |          |

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| Family/Species                        | Habit   | SCO      | SPL      | Phytogeographic Domain       | New Occurrence             | Threat   |
|--------------------------------------|---------|----------|----------|------------------------------|---------------------------|----------|
| Faramea multiflora A.Rich.          | Shr.    | AA 4828  |          | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Ferdinandusca edmundoi Sucre        | Arb.    | LM 4906  |          | Amazonian, Cerrado, Atlantic Forest |                           |          |
| Hillia parasitica Jacq.             | Epip.   | DC 2134  | ML 1101  | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Hillia ulei K.Krause               | Epip.   | PF 1622  |          | Amazonian, Atlantic Forest Northeast |                           |          |
| Ixora muelleri Bremek.              | Arb.    | MC 347   | AA 4833  | Atlantic Forest               |                           |          |
| Malanea sp.1                        | Shr.    | MC 830   |          | Atlantic Forest               |                           |          |
| Malanea boliviensis Standl.         | Clim.   | PF 1844  |          | Atlantic Forest               |                           |          |
| Margaretopsis astrellantha (Wernhan) L.Anderson | Shr.    | PF 1544  | AA 4212  | Amazonian, Atlantic Forest    |                           |          |
| Notopleura bahiensis C.M. Taylor    | Epip.   | RB 445   | AA 4210  | Amazonian, Caatinga, Atlantic Forest |                           |          |
| Notopleura tapajoensis (Standl.) Bremek. | Arb.    | RB 424   | AA 4815  | Amazonian, Atlantic Forest    |                           |          |
| Palicourea blanchetiana Schltdl.    | Shr.    | MC 465   | AA 4210  | Amazonian, Caatinga, Atlantic Forest |                           |          |
| Palicourea guianensis Aubl.         | Arb.    | MC 616   | WT 14319 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Palicourea aff. rigida Kunth        | Shr.    | RB 520   |          | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Posoqueria latifolia (Rudge) Schult. subsp. latifolia | Shr.    | WT 14189 |          | Amazonian, Cerrado, Atlantic Forest |                           |          |
| Psychotria sp.1                     | Shr.    | MC 529   |          | Atlantic Forest               |                           |          |
| Psychotria sp.2                     | Arb.    | AA 8147  | AA 4846  | Atlantic Forest               |                           |          |
| Psychotria sp.3                     | Arb.    | AA 8133  |          | Atlantic Forest               |                           |          |
| Psychotria colorata (Willd. ex Schult.) Müll.Arg. | Arb.    | AA 8149  | JJ 4788  | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Psychotria cupularis (Müll.Arg.) Standl. | Shr.    | RB 454   | AA 4215  | Amazonian, Atlantic Forest Bahia |                           |          |
| Psychotria deflexa DC.              | Shr.    | AA 4702  | PF 1889  | Amazonian, Cerrado, Atlantic Forest |                           |          |
| Psychotria hoffmanniiseggiana (Willd. ex Schult.) Müll. Arg. | Shr.    | RB 463   | PF 2640  | Amazonian, Cerrado, Atlantic Forest |                           |          |
| Psychotria leiocarpa Cham. & Schltdl. | Arb.    | JP 920   | PF 1787  | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Psychotria longipes Müll.Arg.       | Shr.    | ML 370   | PF 2641  | Amazonian, Atlantic Forest    |                           |          |
| Psychotria lupalina Benth.          | Shr.    | JJ 4790  |          | Amazonian, Cerrado, Atlantic Forest |                           |          |
| Psychotria mapourioioides DC.       | Arb.    | MC 829   | AA 4864  | Amazonian, Cerrado, Atlantic Forest Northeast and Atlantic Forest |                           |          |
| Psychotria minutiflora Müll.Arg.    | Shr.    | JP 850   | PF 1887  | Caatinga, Atlantic Forest    |                           |          |
| Psychotria myriantha Müll. Arg.     | Shr.    | JL 713   |          | Cerrado, Atlantic Forest      |                           |          |
| Psychotria platypoda DC.            | Shr.    |         | WT 14300 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                           |          |
| Psychotria phyllocadymmooides Müll. Arg. | Shr.    | PF 2934  |          | Atlantic Forest               |                           |          |
| Psychotria schlethendaliana (Müll.Arg.) Müll.Arg. | Shr.    | DC 2130  |          | Caatinga, Atlantic Forest    |                           |          |
| Psychotria aff. stachyoides Benth.  | Shr.    | MC 607   | AA 4534  | Caatinga, Cerrado, Atlantic Forest |                           |          |

Continued on next page
| Family/Species                  | Habit     | SCO   | SPL       | Phytogeographic Domain                        | New Occurrence | Threat          |
|--------------------------------|-----------|-------|-----------|-----------------------------------------------|----------------|-----------------|
| *Psychotria vellosiana* Benth. | Arb.      | RB 467| AA 4829   | Caatinga, Atlantic Forest                      |                |                 |
| *Randia armata* (Sw.) DC.      | Arb.      | MC 541| AA 4829   | Amazonian, Caatinga, Cerrado, Atlantic Forest  |                |                 |
| *Richardia* sp. 1              | Herb.     | AA 8148| PF 1530  | Amazonian, Atlantic Forest                      |                |                 |
| *Ronacea latifolia* Aubl.      | Shr.      | ML 1245| PF 1530   | Cerrado, Atlantic Forest                        |                |                 |
| *Rudgea* sp. 1                 | Arb.      | ML 308 | AA 4228   | Atlantic Forest                                |                |                 |
| *Rudgea aff. interrupta* Benth. | Arb.     | MC 453 | PF 1640   | Cerrado, Atlantic Forest                        |                |                 |
| *Rudgea aff. nodosa* (Cham.) Benth. | Shr. | PF 1579 | PF 1640   | Cerrado, Atlantic Forest                        |                |                 |
| *Spicantia obova*              | Sub-shr.  | AA 4228| MT 14330  | Amazonian, Atlantic Forest                      |                |                 |
| *Schradera polycephala* DC.    | Herb.     | RB 535 | MT 14330  | Amazonian, Atlantic Forest                      |                |                 |

**RUTACEAE**
- *Conocarpus macrophyllus* J.C. Mikan
  - Shr. | MC 509 | Atlantic Forest
- *Esenbeckia leiocarpa* Engl.
  - Arb. | RB 400 | Cerrado, Atlantic Forest
- *Galipea laxiflora* Engl.
  - Arb. | JP 880 | Atlantic Forest
- *Neoraputia alba* (Nees & Mart.) Emmerich ex Kallunki
  - Arb. | MC 730 | Atlantic Forest
- *Pilocarpus grandiflorus* Engl.
  - Arb. | MC 463 | Atlantic Forest
- *Pilocarpus riedelianus* Engl.
  - Shr. | PF 2925 | Atlantic Forest
- *Zanthoxylum acuminatum* (Sw.) Sw.
  - Arb. | ML 356 | Amazonian, Cerrado, Atlantic Forest

**SABIACEAE**
- *Meliosma* sp. 1
  - Arb. | ML 740 | ML 667 | Cerrado, Atlantic Forest
- *Meliosma sellowii* Urb.
  - Arb. | ML 740 | ML 667 | Cerrado, Atlantic Forest

**SALICACEAE**
- *Banara serrata* (Vell.) Warb.
  - Arb. | WT 14290 | Amazonian, Atlantic Forest
- *Casearia* sp. 1
  - Arb. | MC 671 | Atlantic Forest
- *Casearia* sp. 2
  - Arb. | LM 4924 | Atlantic Forest
- *Casearia arborea* (Rich.) Urb.
  - Arb. | AA 4676 | JP 783 | Amazonian, Cerrado, Atlantic Forest
- *Casearia bahiensis* Sleumer
  - Arb. | AA 4676 | JP 783 | Amazonian, Cerrado, Atlantic Forest
- *Casearia commersoniana* Cambess.
  - Arb. | MC 392 | PF 1780 | Amazonian, Caatinga, Cerrado, Atlantic Forest
- *Casearia decandra* Jacq.
  - Arb. | MC 838 | Amazonian, Caatinga, Cerrado, Atlantic Forest
- *Prockia crucis* P.Browne ex L.
  - Shr. | MC 567 | Amazonian, Caatinga, Cerrado, Atlantic Forest

**SANTALACEAE**
- *Phoradendron* sp. 1
  - Hemi-par. | JP 828 | Atlantic Forest
- *Phoradendron affinis* (Pohl ex DC.) Engl. & Krause
  - Hemi-par. | MC 740 | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal

Continued on next page
Table 1. Continued.

| Family/Species                             | Habit     | SCO  | SPL  | Phytogeographic Domain                      | New Occurrence | Threat         |
|-------------------------------------------|-----------|------|------|---------------------------------------------|----------------|----------------|
| Phoradendron chrysocladon A. Gray         | Hemi-par. | PF 2912 |      | Caatinga, Cerrado, Atlantic Forest          |                |                |
| Phoradendron crassifolium (Pohl ex DC.) Eichler | Hemi-par. | MC 609 | ML 302 | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal |                |                |
| Phoradendron nigricans Rizzini            | Hemi-par. | ML 711 |      | Caatinga, Cerrado, Atlantic Forest          |                |                |
| Phoradendron piperoides (Kunth) Trel.     | Hemi-par. | JP 831 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pampa, Pantanal |                |                |
| **SAPINDACEAE**                           |           |      |      |                                             |                |                |
| Allophylus sp. 1                          | Arb.      | MC 448 |      | Atlantic Forest                             |                |                |
| Allophylus leucopecollectus Radlk.         | Arb.      | ML 1246 |      | Atlantic Forest                             |                |                |
| Allophylus pertolatus Radlk.               | Arb.      | MC 613 |      | Atlantic Forest                             |                |                |
| Allophylus sericeus (Cambess.) Radlk.      | Arb.      | PF 1913 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                |
| Cupania sp. 1                             | Arb.      | RP 713 |      | Atlantic Forest                             |                |                |
| Cupania rugosa Radlk.                      | Arb.      | RP 698 |      | Atlantic Forest                             |                |                |
| Matayba cf. grandis Radlk.                | Arb.      | ML 1086 |      | Atlantic Forest                             |                |                |
| Matayba intermedia Radlk.                 | Arb.      | MC 806 |      | Atlantic Forest                             |                |                |
| Paullinia carpopoda Cambess.               | Clim.     | MC 876 | RP 701 | Cerrado, Atlantic Forest                    |                |                |
| Paullinia revoluta Radlk.                  | Clim.     | RP 856 |      | Atlantic Forest                             |                |                |
| Paullinia rubiginosa Cambess.              | Clim.     | ML 1173 |      | Amazonian, Atlantic Forest                  |                |                |
| Paullinia trigonia Vell.                   | Clim.     | RP 710 |      | Amazonian, Caatinga, Atlantic Forest        |                |                |
| Paullinia weinmanniaefolia Mart.           | Clim.     | RB 534 |      | Atlantic Forest                             |                |                |
| Serjania sp. 1                            | Clim.     | MC 806 |      | Atlantic Forest                             |                |                |
| Serjania clematidifolia Cambess.           | Clim.     | ML 1114 |      | Amazonian, Cerrado, Atlantic Forest         |                |                |
| Serjania salzmanniana Schlull.             | Clim.     | RB 506 |      | Amazonian, Cerrado, Atlantic Forest         |                |                |
| Talisia aff. macrophylla Radlk.            | Arb.      | MC 502 |      | Amazonian, Atlantic Forest                  |                |                |
| Thnouia sp. 1                             | Clim.     | JP 909 |      | Atlantic Forest                             |                |                |
| **SAPOTACEAE**                             |           |      |      |                                             |                |                |
| Chrysophyllum gonocarpum (Mart. & Eichler ex Miq.) Engl. | Arb. | MC 458 | LD 438 | Amazonian, Cerrado, Atlantic Forest |                |                |
| Chrysophyllum splendidens Spreng.          | Arb.      | ML 670 |      | Atlantic Forest                             |                | VU             |
| Chrysophyllum subspinosum Monach.          | Arb.      | MC 467 |      | Atlantic Forest                             |                | EN             |
| Micropholis gardneriana (A.DC.) Pierre     | Arb.      | FF 1471 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                |                |
| Micropholis guyanensis (A.DC.) Pierre      | Arb.      | AA 4837 |      | Amazonian, Cerrado, Atlantic Forest         |                |                |
| Pradisia lactescens (Vell.) Radlk.         | Arb.      | MC 630 | JP 503 | Atlantic Forest                             |                |                |
| **SCHLEGELIACEAE**                        |           |      |      |                                             |                |                |
| Schlegelia parviflora (Oerst.) Monach.     | Clim.     | RB 404 | AA 4543 | Amazonian, Atlantic Forest                |                |                |
| **SIMAROUBACEAE**                         |           |      |      |                                             |                |                |
| Simaba cf. subcymosa A.St.-Hil. & Tul.     | Arb.      | MC 658 |      | Atlantic Forest                             |                | Northeast      |

Continued on next page
| Family/Species                          | Habit | SCO  | SPL  | Phytogeographic Domain                        | New Occurrence | Threat |
|----------------------------------------|-------|------|------|-----------------------------------------------|----------------|--------|
| *Simarouba amara* Aubl.                | Arb.  | AA 8158 |      | Amazonian, Caatinga, Cerrado, Atlantic Forest |                 |        |
| **SIPARUNACEAE**                       |       |       |      |                                               |                 |        |
| *Siparuna reginae* (Tul.) A.DC.       | Arb.  | AA 4679 |      | Amazonian, Cerrado, Atlantic Forest           |                 |        |
| **SMILACACEAE**                        |       |       |      |                                               |                 |        |
| *Smilax* sp.1                          | Clim. | AA 8160 |      | Atlantic Forest                               |                 |        |
| *Smilax* sp.2                          | Clim. |        | ML 1100 | Atlantic Forest                               |                 |        |
| **Smilax staminea** Griseb.            | Clim. | RB 406  | PF 1791 | Cerrado, Atlantic Forest                      |                 |        |
| **SOLANACEAE**                         |       |       |      |                                               |                 |        |
| *Solanac. sp.1*                        | Clim. | MC 776  |      | Atlantic Forest                               |                 |        |
| *Acnistas arborescens* (L.) Schltdl.   | Arb.  |        | JP 570 | Atlantic Forest                               |                 |        |
| *Aureliana fasciculata* (Vell.) Sendtn. | Arb.  | WT 14187 | WT 14286 | Amazonian, Atlantic Forest                   |                 |        |
| *Brunfelsia cf. clandestina* Plowman   | Shr.  | PF 2927 |      | Atlantic Forest                               |                 |        |
| *Cestrum cf. retrofractum* Dunal       | Shr.  | MC 550  |      | Atlantic Forest, Pantanal                     |                 |        |
| *Cestrum salzmanni* Dunal              | Arb.  |        | JP 796 | Atlantic Forest                               |                 |        |
| *Cestrum schlechtendalii* G.Don        | Shr.  |        | MC 527 | Amazonian, Cerrado, Atlantic Forest           |                 |        |
| *Dyssochroma viridiflorum* (Sims) Miers | Epip. | MC 706  |      | Atlantic Forest                               |                 |        |
| *Solanum acerifolium* Dunal            | Shr.  |        | ML 1279 | Amazonian, Caatinga, Cerrado, Atlantic Forest |                 |        |
| *Solanum americanum* Mill.             | Shr.  |        | RP 110 | Amazonian, Caatinga, Cerrado, Atlantic Forest | Pampa, Pantanal |        |
| *Solanum asterophorum* Mart.           | Shr.  | MC 857  |      | Atlantic Forest                               |                 |        |
| *Solanum bahianum* S. Knapp            | Shr.  |        | MC 523 | Atlantic Forest                               |                 |        |
| *Solanum caavurana* Vell.              | Shr.  |        | JP 858 | MC 656 | Caatinga, Cerrado, Atlantic Forest           |                 |        |
| *Solanum jussieui* Dunal               | Shr.  |        | LM 4898 | Atlantic Forest                               | Northeast       |        |
| *Solanum polytrichum* Moric.           | Shr.  |        | RB 565 | Atlantic Forest                               |                 |        |
| *Solanum reflexiflorum* Moric. ex Dunal| Shr.  |        | MC 442 | ML 338 | Atlantic Forest                               |                 |        |
| *Solanum restingae* S. Knapp           | Shr.  |        | MC 370 | Atlantic Forest                               | EN anexo II     |        |
| *Solanum aff. schizandrum* Sendtn.     | Clim. |        | RB 543 | Atlantic Forest                               |                 |        |
| *Solanum swartzianum* Roem. & Schult.  | Shr.  |        | RP 123 | AA 4082 | Cerrado, Atlantic Forest                      |                 |        |
| *Solanum sycocarpum* Mart. & Sendtn.   | Arb.  |        | PF 1817 | Atlantic Forest                               | EN              |        |
| **STYRACACEAE**                        |       |       |      |                                               |                 |        |
| *Styrax acuminatus* Pohl               | Arb.  |        | MC 494 | Atlantic Forest                               | Northeast       |        |
| **SYMPPLOCACEAE**                      |       |       |      |                                               |                 |        |
| *Symplocos sp.1*                       | Arb.  |        | AA 4824 | Atlantic Forest                               |                 |        |
| *Symplocos estrellensis* Casar.        | Shr.  |        | AA 4799 | Atlantic Forest                               |                 |        |

Continued on next page
| Family/Species          | Habit       | SCO  | SPL   | Phytogeographic Domain                          | New Occurrence       | Threat     |
|------------------------|-------------|------|-------|------------------------------------------------|----------------------|------------|
| **THYMELAEACEAE**      |             |      |       |                                                |                      |            |
| *Daphnopsis* sp. 1     | Shr.        | JP 830 |       | Atlantic Forest                                |                      |            |
| **TRIGONIACEAE**       |             |      |       |                                                |                      |            |
| *Trigonia nivea* Cambess. | Clim.    | MC 665 |       | Amazonian, Cerrado, Atlantic Forest            |                      |            |
| **URTICACEAE**         |             |      |       |                                                |                      |            |
| *Cecropia hololeuca* Miq. | Arb.   | MC 861 |       | Cerrado, Atlantic Forest                        |                      |            |
| *Cecropia pachystachya* Trécul | Arb. | MC 817 | RC 1047 | Amazonian, Caatinga, Cerrado, Atlantic Forest, Pantanal |                      |            |
| *Pilea* sp. 1          | Herb.       | RB 568 |       | Atlantic Forest                                |                      |            |
| *Pilea rhizobola* Miq. | Herb.       | MC 482 | AA 4826 | Amazonian, Atlantic Forest                      |                      | Northeast  |
| *Pourouma guianensis* Aubl. | Arb. | MC 513 | JP 781 | Amazonian, Atlantic Forest                      |                      |            |
| *Pourouma velutina* Mart. ex Miq. | Arb. | MC 808 |       | Amazonian, Atlantic Forest                      |                      |            |
| *Urera caracasana* (Jacq.) Griseb. | Arb. | MC 807 |       | Amazonian, Caatinga, Cerrado, Atlantic Forest  |                      |            |
| **VELLOZIACEAE**       |             |      |       |                                                |                      |            |
| *Barbacenia* sp. 1     | Herb.       | DC 2150 |       | Atlantic Forest                                |                      |            |
| **VERBENACEAE**        |             |      |       |                                                |                      |            |
| *Lantana* sp. 1        | Shr.        | AA 4239 |       | Atlantic Forest                                |                      |            |
| *Lantana camara* L.    | Shr.        | AA 4908 |       | Amazonian, Cerrado, Atlantic Forest            |                      |            |
| *Lantana morii* Moldenke | Shr.   | PF 2920 |       | Atlantic Forest                                |                      |            |
| *Lantana undulata* Schrank | Shr. | AA 8121 |       | Atlantic Forest                                |                      |            |
| *Stachytarpheta* sp. 1 | Herb.   | MC 694 |       | Atlantic Forest                                |                      |            |
| *Vitex* sp. 1          | Arb.        | MC 869 |       | Atlantic Forest                                |                      |            |
| **VIOLACEAE**          |             |      |       |                                                |                      |            |
| *Noisetia orchidiflora* (Rudge) Ging. | Herb. | MC 631 | RB 507 | Amazonian, Atlantic Forest                      |                      |            |
| *Rinorea guianensis* Aubl. | Arb. |     | PF 2633 | Amazonian, Atlantic Forest                      |                      |            |
| **VITACEAE**           |             |      |       |                                                |                      |            |
| *Cissus erosa* Rich.   | Clim.       | RP 720 | RB 473 | Amazonian, Caatinga, Cerrado, Atlantic Forest  |                      |            |
| *Cissus nobilis* Kuhl. | Clim.       | MC 587 |       | Amazonian, Atlantic Forest                      |                      |            |
| *Cissus paucinervia* Lombardi | Clim. | MC 414 |       | Atlantic Forest                                |                      |            |
| **VOCHYSIACEAE**       |             |      |       |                                                |                      |            |
| *Qualea* sp. 1         | Arb.        | AA 4714 |       | Atlantic Forest                                |                      |            |
| *Qualea* sp. 2         | Arb.        | PF 1528 |       | Atlantic Forest                                |                      |            |
| **ZINGIBERACEAE**      |             |      |       |                                                |                      |            |
| *Renalmia petaloides* Gagnep. | Herb. | ML 375 | ML 312 | Atlantic Forest                                |                      | Northeast  |
accounting for 59.4% of the liana species recorded. The Orchidaceae family consisted of the highest number of epiphytic species (74 species), followed by Bromeliaceae (47 species), Araceae (25 species), and Piperaceae (12 species), accounting for 82.7% of the epiphytic species recorded. The Myrtaceae family had the highest number of arboreal species (25 species), followed by Fabaceae (23 species), Rubiaceae (22 species), Lauraceae (21 species), Melastomataceae (18 species), Annonaceae (10 species), and Euphorbiaceae and Sapindaceae (9 species each), accounting for 34.6% of the arboreal species sampled.

In addition to the seven angiosperm species recently described following the first field trips to SPL and SCO, 12 other species have been identified by nine specialists till date. Some of these species are in the description phase, including one species each of Philodendron (Araceae), Vriesea (Bromeliaceae), Dichorisandra (Commelinaceae), Bertolonia (Melastomataceae), Ichnanthus (Poaceae), Myrsine (Primulaceae), Faramea and Psychotria (Rubiaceae), Cupania (Sapindaceae), and Symplocos (Symplocaceae) and two species of Peperomia (Piperaceae).

Discussion

From a floristic perspective, the abundance and percentage of endemic Atlantic Forest species found in the two areas surveyed (SCO and SPL) are corroborated in previous studies indicating that this environment is one of the richest ecosystems in Brazil with high levels of endemism (Mori et al. 1981, Gentry 1992, Martini et al. 2007, Murray-Smith et al. 2008, Amorim et al. 2009, Forzza et al. 2012). Southern Bahia is considered one of the three regions of endemism in the Atlantic Forest and one of the six regions with high levels of endemic plants threatened with extinction (Murray-Smith et al. 2008). However, research and conservation measures focused on this region are still inadequate (Carnaval and Moritz 2008, Amorim et al. 2009, Forzza et al. 2012). Southern Bahia is considered one of the three regions of endemism in the Atlantic Forest and one of the six regions with high levels of endemic plants threatened with extinction (Murray-Smith et al. 2008). However, research and conservation measures focused on this region are still inadequate (Carnaval and Moritz 2008, Amorim et al. 2009). The percentage of endemism among the species in southern Bahia and northern Espírito Santo found in this study (11.2%) was similar to that obtained by Amorim et al. (2009) in the Montane Forest (7.4%) but lower than that.
obtained in areas of lowland ombrophilous forests (18.9%–
28.1% of the total flora) (Thomas et al. 1998, Amorim et al.
2008). However, the endemism in the Montane Forest appears
to be more local, with species recorded only in these elevation
zones, as exemplified by the recent addition of species to genera
such as Bertolonia, Dichorisandra, Macrocarpaea, Quesnelia,
and others.

In the two study areas, Psychotria, Piper, Ocotea, Vriesea,
and Peperomia were the most abundant genera in terms of the
number of species; these were also the most representative

Table 2. Comparison of taxonomic diversity and life forms from four montane areas of southern Bahia and other areas of Atlantic Forest. SCO = Corcovado Mountain, SPL = Pedra Lascada Mountain, SBO = Serra Bonita Mountain, SLO = Lontras Mountain, UNA = Una Biological Reserve, TMS = Teimoso Mountain. Epi./Hemiepiph. = Epiphytes and hemiepiphytes, Climb. = Climbers, Herb. = Herbaceous, Arb./Shr. = Trees and shrubs. (Adapted from Amorim et al. 2009 with updates numbers).

| Locality | N. spp. | N. gen. | N. fam. | Arb./Shr. (%) | Herb. (%) | Climb. (%) | Epi./Hemiepiph. (%) |
|----------|---------|---------|---------|--------------|-----------|------------|---------------------|
| SCO      | 680     | 367     | 100     | 49           | 17,3      | 11,5       | 21                  |
| SPL      | 463     | 269     | 88      | 48           | 18        | 10         | 23,7                |
| SBO      | 905     | 451     | 126     | 52,4         | 17,5      | 13,5       | 14,7                |
| SLO      | 910     | 421     | 122     | 45,7         | 14        | 11,4       | 27,1                |
| UNA      | 947     | 435     | 108     | 51,3         | 20,5      | 17,8       | 10,4                |
| TMS      | 667     | 363     | 100     | 53,2         | 19,8      | 14,5       | 12,5                |
genera in previous study conducted in similar areas, with the exception of *Vriesea* (Amorim et al. 2009), which is epiphytic. In addition, the genera represented by a single species accounted for 29.4% of the total, which was close to the percentage (23.6%) obtained by Amorim et al. (2009).

In terms of the number of species, the families Orchidaceae, Rubiaceae, Bromeliaceae, and Poaceae were abundant not only in SCO and SPL but also in other areas of the Atlantic Forest (Pabst and Dungs 1975, Soderstrom et al. 1988, Giulietti et al. 2005, Martinelli et al. 2008, Amorim et al. 2009). Furthermore, Melastomataceae is another family with a high number of species in the areas surveyed and constitutes an important Atlantic Forest group, considering the species abundance (Oliveira-Filho and Fontes 2000, Rocha and Amorim 2012).

The abundance of Asteraceae, Melastomataceae, and Solanaceae tends to increase with altitude in the Atlantic Forest (Oliveira-Filho and Fontes 2000). According to Amorim et al. (2009), these families are among the most abundant families in the mountainous areas of southern Bahia, including SCO and SPL reported in the present study. In contrast, the abundance of Chrysobalanaceae, Rutaceae, and Sapotaceae tends to decrease with an increase in the altitude (Oliveira-Filho and Fontes 2000). In the present study, the latter three families contained five, seven, and six species, respectively, and were among the least abundant families. On the other hand, in the study of Amorim et al. (2005), a high abundance of Rutaceae was detected in a montane region.

One of the main differences in floristic documentation between the present study and previous studies is related to the families Burseraceae and Combretaceae. These families have been reported to be generally highly abundant in the lowlands of southern Bahia (Amorim et al. 2005). In contrast, we did not identify the family Burseraceae and found a low representativeness of the family Combretaceae in the present study.

With regard to the life forms documented, more than 50% of the species recorded in the two areas were nonarboreal (64.8% in SCO and 66.3 in SPL). This is in accordance with previous findings that in tropical forests, a high abundance of angiosperms is expected for nonwoody species (Gentry and Dodson 1987, Gentry 1988, Webster 1995), particularly in the Montane Forest. In addition, these values are very similar to those found in PARNA Serra das Lontras and in RPPN Serra Bonita and, to a lesser extent, in RPPN Serra do Teimoso and REBIO de Una (Amorim et al. 2009). However, the latter two regions represent different physiognomies than SCO and SPL: RPPN Serra do Teimoso has a strong seasonal influence, whereas REBIO de Una is situated in a submontane area near the coast.

With regard to the Atlantic Forest regions located in southeast Brazil, our results were very similar to those of Lima and Guedes-Bruni (1997) in Macaé de Cima and, to a lesser extent, to the inventory of the Jureia Mountains (Mamede et al. 2001), indicating that this pattern of life forms is similar to that observed in the Atlantic Forest. Subtle differences in the life forms can be observed, for example, the greater abundance of climbing species in SCO than in SPL and the greater abundance of epiphytic species in PARNA Serra das Lontras in contrast to the greater abundance of herbaceous species in REBIO de Una and RPPN Serra do Teimoso. However, the homogeneity in the patterns of life forms is evident in these distinct locations, as described by Amorim et al. (2009) in a floristic study conducted in three montane areas in southern Bahia.

According to the Lista de Espécies da Flora do Brasil (2012), three species were not found in the Atlantic Forest: *Cattleya elongata* (Orchidaceae), *M. leuconeura* (Primulaceae), and *Passiflora nitida* (Passifloraceae). Of all the species sampled, 47 are new occurrences in northeast Brazil, four are new occurrences in southern Bahia, and eight are new occurrences in Bahia. Of the 47 new occurrences, *Vanilla cf. bicolor* (Orchidaceae) and *Piper subglandulosum* (Piperaceae) were known only in the State of Amazonas in northern Brazil. In addition, it should be emphasized that 32 species found in SCO and SPL have been classified into various categories of threat of extinction, including *Buctris pickelli* (Areaceae), *Rhapis baccifera* subsp. *hileiabaiana* (Cactaceae), *Abarema cochliacarpus* and *Inga grazielae* (Fabaceae), *Heteropterys bullata* (Malpighiaceae), and *C. warneri* (Orchidaceae), all of which are in the vulnerable category (MMA 2008, Biodiversitas 2009).

The presence of disjunct taxa between the Amazonian and Atlantic forests (6.8%, represented by 78 species) reinforces the idea of possible floristic connections between southern Bahia and the Amazonian Forest during the Quaternary era (Prance 1979, Oliveira-Filho and Ratter 1995, Carnaval and Moritz 2008). Although the percentage of species typically found in the Amazonian Forest is lower in the Montane Forest than in lowland areas, the disjunct distribution between taxa of the Atlantic and Amazonian forests has been previously reported (Andrade-Lima 1953, Prance 1979, Mori et al. 1981, Gentry 1982, Rizzini 1997, Amorim et al. 2008, 2009). The presence of common species among Bahia, Espírito Santo, and Rio de Janeiro (40 species; 3.5%) indicates another pattern in taxa distribution, which is in agreement with the study of Oliveira-Filho et al. (2005), which suggests the occurrence of a continuous gradient in the ombrophilous forests, from Rio de Janeiro to the south of Bahia.

The percentage of species not yet described (1.3%) was similar to that reported in studies by Amorim et al. (2005) (1.8%) and Amorim et al. (2009) (3.5%). These figures when added to the recently published species collected in SCO and SPL, such as *A. viridipetala* A.F.Costa and Amorim (Bromeliaceae), *M. atlantico* J.R.Grant and V.Trunz and *M. orbicularis* J.R.Grant and V.Trunz (Gentianaceae), *B. bullata* Baumgratz, Amorim, and A.B.Jardim and M. *dorsalporosa* R.Golden and Reginato (Melastomataceae), *Myrcia lascada* Sobral (Myrtaceae), and *Carepachea lucida* J.G.Jardim and Zappi (Rubiaceae), together with the records of other species previously unknown in southern Bahia (7.9%) indicate the lack of floristic studies in this region (Amorim et al. 2009). In addition to the rare and unknown angiosperm species, the presence of species of ferns and lycophytes also deserves attention, particularly in SCO, where the *Diplazium fimbriatum* (Athyriaceae) (Mynssen and Matos 2012) type originates and where *Adiantum diphyllum* (Pteridaceae), a rare and endemic species of Bahia, was detected during the initial field trips to the area (Sundue and Prado 2005).

Therefore, floristic surveys that contribute to the description of new species and help delimit the distribution of occurrence of taxa constitute rich sources of information for the studies on biodiversity and conservation because these surveys will enable the identification of hotspots that should be prioritized in future conservation projects, at both the state and national levels. Till date, there has been no effective action for the establishment of legal protection units in SCO and SPL.
which is a cause for concern, considering the abundance of vascular plants and the high number of new and endemic species documented, in addition to the large number of threatened species. Moreover, the results of the present study revealed the ecological importance of the vestigial Montane Forest in southern Bahia and the need for further surveys in these areas. We believe that the data presented here will be useful in developing future conservation strategies in these areas, while serving as the foundation for future ecological, phylogenetic, and taxonomic studies, thereby complementing studies on local biodiversity, which are necessary for the preservation of these ecosystems.

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