ATLANTIC-PRIMATES: A DATASET OF COMMUNITIES AND OCCURRENCES OF PRIMATES IN THE ATLANTIC FORESTS OF SOUTH AMERICA

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Introduction

Primates, the order that contains our closest biological relatives, are among the best studied mammals. They offer critical insights into human evolution, biology, behavior, and emerging infectious diseases, are important components of the cultures and religions of many societies, and play key roles in ecosystem functioning (Estrada et al. 2017). Non-human primates can also shape the structure of plant communities through the dispersal of small and large seeds (Lambert and Garber 1998, Chapman and Russo 2006, Bufalo et al. 2016, Chaves et al. in press) and affect plant growth and productivity through their feeding on leaves, bark, and flowers (Chapman et al. 2013). Although much less studied, evidence on the role of some primates as pollinators has been provided in Africa, Madagascar and in the Neotropics (Heymann 2011). Primates are also appealing animals: ecotourism through the observation of primates can be an important source of income for local populations (Fuentes 2012) and they are often chosen as flagship species in conservation programs (Kierulff et al. 2012, Supriatna and Ario 2015).

While in the 1980´s there was a consensus that there were around 160 primate species in the world, today, the most recent compilation of the IUCN/SSC Primate Specialist Group recognizes 496 species and 695 taxa (Mittermeier et al. 2013 updated online on September 30, 2014: http://www.primate-sg.org/primate_diversity_by_region/). There are 211 primate taxa in the Neotropics. Twenty-seven of them have been described since 1990, in recent years, and it is expected that more have yet to be discovered (Mittermeier and Rylands 2018 updated online on August 1st, 2017: http://www.primate-sg.org/new_species/). This marked increase in the number of Neotropical primates is mainly due to the use of molecular genetic techniques in taxonomic studies and to the increasing effort to study primates and their geographic distribution. Threats such as deforestation, habitat fragmentation, hunting, and infectious

246 disease outbreaks cause primate population declines (Estrada et al. 2017). For this reason,
247 it is necessary to carry out reliable estimates of population size and species distribution
248 to evaluate the local impact of anthropogenic activities and implement actions to mitigate
249 more efficiently their negative effects (Rylands et al. 2008).

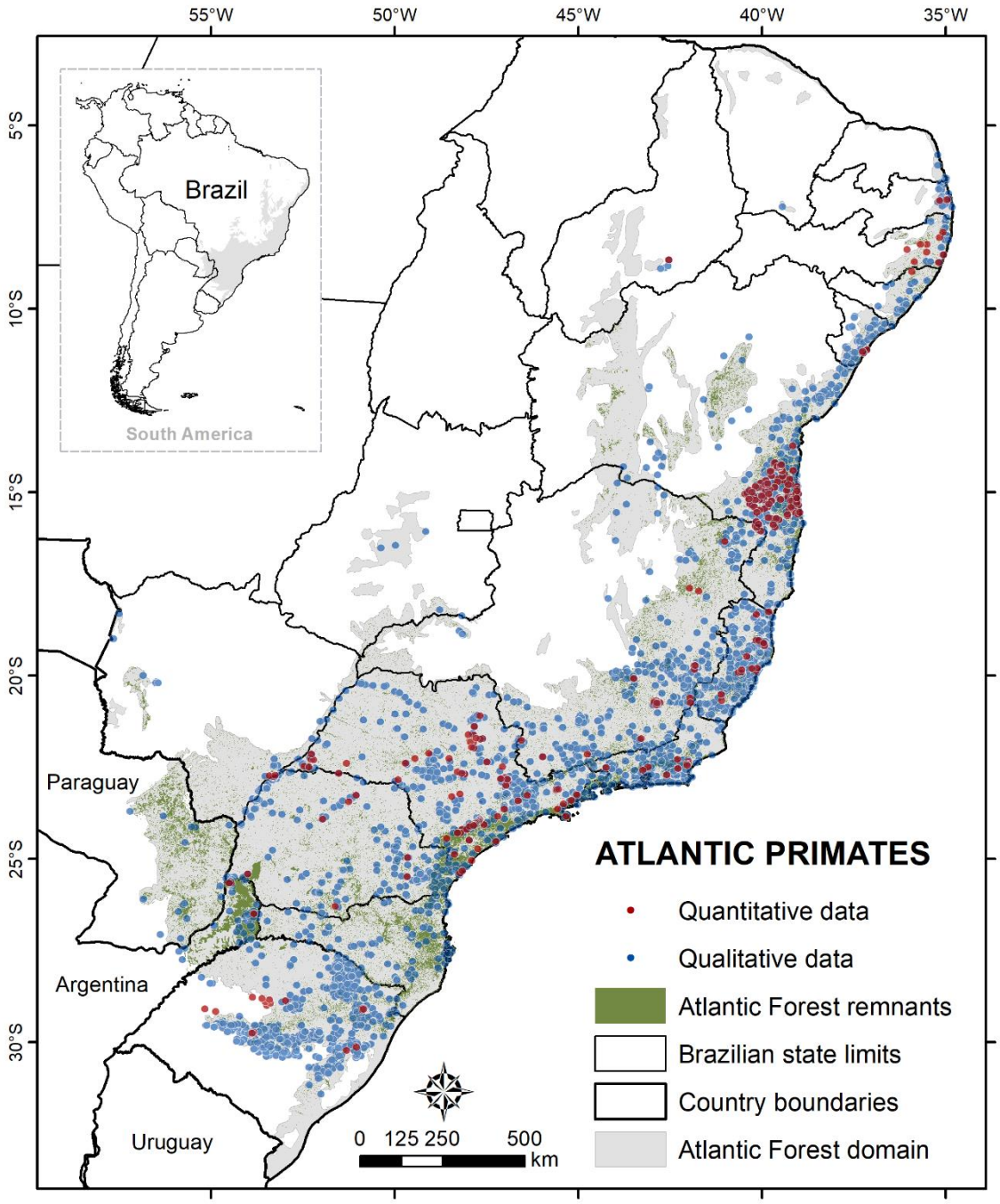
250 Globally, it is estimated that 55% of primate species are now threatened with
251 extinction and 75% have declining populations (Estrada et al. 2017). In the Neotropics,
252 36% of the primate species are threatened and 63% have declining populations. Brazil
253 has more primate species than any other country (Estrada et al. 2017) and 26 species, 19
254 of which endemic, are native to the tropical and subtropical Atlantic Forests (Graipel et
255 al. 2017). Habitat loss and fragmentation are the main threats to primate populations of
256 the Atlantic Forest (Chiarello 2003, da Silva et al. 2015), but poaching (Cullen Jr. et al.
257 2000, Canale et al. 2012, Jorge et al. 2013, Graipel et al. 2016), roadkills (Bueno et al. 2015,
258 Ciocheti et al. 2017), and infectious diseases can also be added to the list (Almeida et al.
259 2012, Agostini et al. 2015, Bicca-Marques et al. 2017). The repeated outbreaks of yellow
260 fever in Brazil (also co-occurring in Argentina and Paraguay, Almeida et al. 2012,
261 Agostini et al. 2015) are responsible for the local extinctions of primate species in many
262 regions. The most recent outbreak (2016-2018) has already affected more than 2000
263 monkeys (Bicca-Marques et al. 2017, Ministério da Saúde 2017, 2018). However, exact
264 numbers cannot be estimated, which highlights our lack of knowledge on primate
265 distributions and population sizes, limiting our understanding of the impacts of such
266 events.

267 The Atlantic forest was one of the largest rainforests of South America, originally
268 covering around 150 million hectares along the Brazilian coast. Today, it is reduced to
269 only 12% of its original area and is extremely fragmented (Ribeiro et al. 2009). The
270 Atlantic Forest is considered one of the five major conservation hotspots in the world

given its high species diversity and endemism (Myers et al. 2000). A few large areas of continuous forests still remain, in the states of São Paulo, Rio de Janeiro, and Bahia, as well as in the Misiones province of Argentina, but 80% of all forest patches are smaller than 50 ha (Ribeiro et al. 2009), limiting the long-term persistence of many primate species.

There have been many studies of primate populations and communities in the Atlantic Forest, but a large proportion of them is not published or is available only as technical reports or theses, many of them in Portuguese or Spanish. We compiled published and unpublished information with data collected between 1815 and 2017. In total, we gathered 10,649 records of 8,121 occurrence and 714 quantitative data records of primate populations and 700 communities (with one to six records per community) of 26 native and 1 introduced (*Saimiri sciureus*) primate species, as well as hybrids. These data refer to 5,152 georeferenced locations (9933 records) in the Atlantic Forest of Brazil, Argentina, and Paraguay (Figure 1) and 320 georeferenced locations (716 records) in other biomes of species native from the Atlantic Forest. The dataset ATLANTIC PRIMATES is the largest inventory of primate communities and populations for the Neotropical region.

This data-paper is part of the work of the ATLANTIC SERIES initiative the objective of which is to compile information on the biodiversity of the Atlantic Forest and make it available publicly. Until now, six data papers of this series have been published: Atlantic Frugivory (Bello et al. 2017), Atlantic Camtraps (Lima et al. 2017), Atlantic Small Mammals (Bovendorp et al. 2017), Atlantic Bats (Muylaert et al. 2017), Atlantic Birds (Hasui et al. 2018) and Atlantic Mammal Traits (Gonçalves et al. 2018).



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295 **Figure 1. Distribution of the primate records of the ATLANTIC-PRIMATES**
296 **dataset in the Atlantic Forest.** Records are from 1815 to 2017; several populations may
297 thus be extinct today. The gray colors show the domain of the Atlantic Forest and the
298 green colors show the remaining Atlantic Forest patches (Ribeiro et al. 2009). Blue dots
299 represent qualitative data of primate records (presence data only) and red dots represent
300 quantitative data of primate records, i.e with an estimation of abundance and/or density.

301

METADATA

CLASS I. DATA SET DESCRIPTORS

A. Data set identity:

Title: ATLANTIC PRIMATES: A dataset of communities and occurrences of primates in the Atlantic Forests of South America

B. Data set and metadata identification codes:

Suggested Data Set Identity Codes:

ATLANTIC-PR_References.csv,
ATLANTIC-PR_Quantitative.csv,
ATLANTIC-PR_Community.csv,
ATLANTIC-PR_Occurrence.csv

C. Data set description

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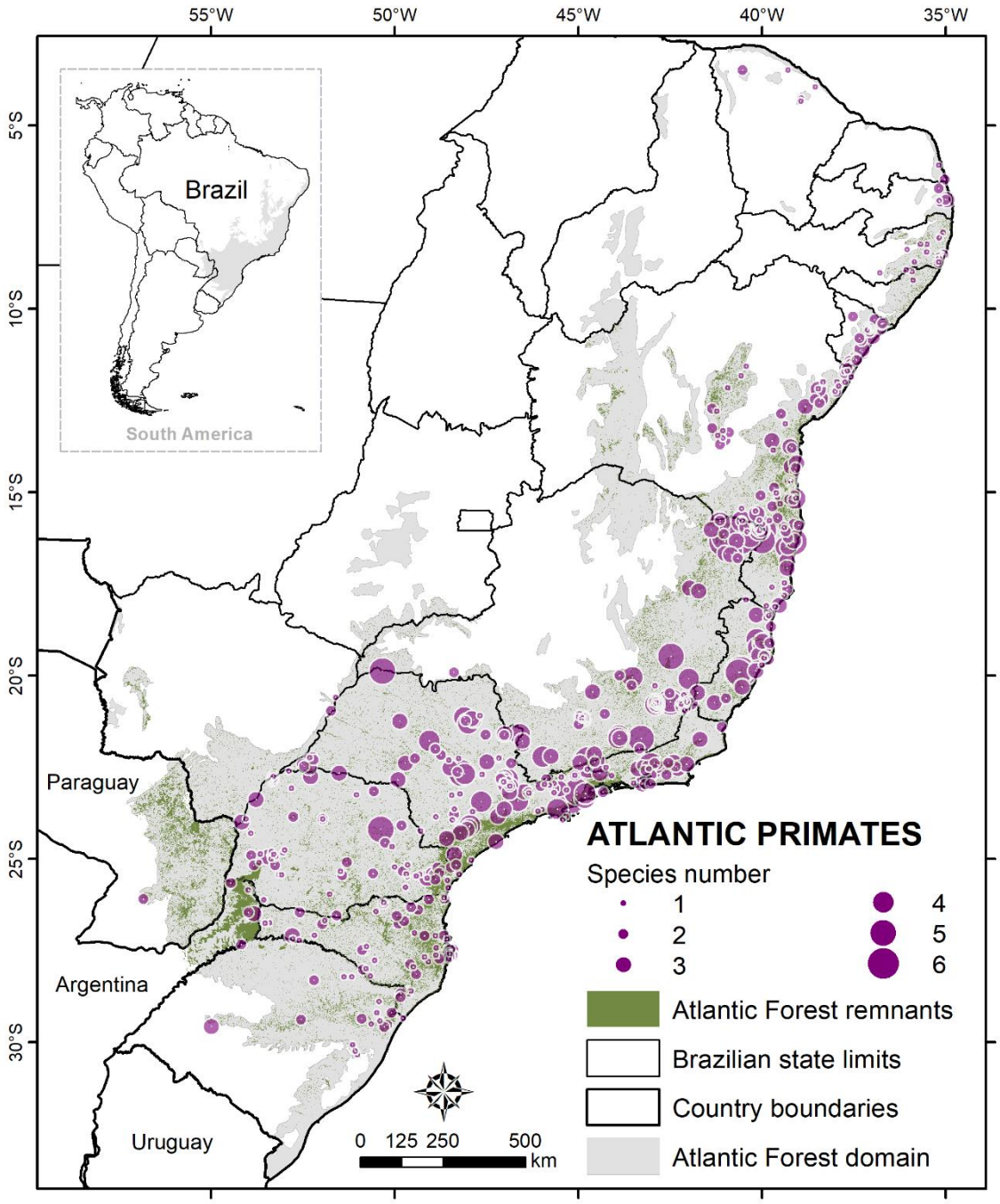
Abstract: Primates play an important role in ecosystem functioning and offer critical insights into human evolution, biology, behavior, and emerging infectious diseases. There are 26 primate species in the Atlantic Forests of South America, 19 of them endemic. We compiled a dataset of 5,472 georeferenced locations of 26 native and 1 introduced primate species, as hybrids in the genera *Callithrix* and *Alouatta*. The dataset includes 700 primate communities, 8,121 single species occurrences and 714 estimates of primate population sizes, covering most natural forest types of the tropical and subtropical Atlantic Forest of Brazil, Paraguay and Argentina and some other biomes. On average, primate communities of the Atlantic Forest harbor 2±1 species (range=1-6). However, about 40% of primate communities contain only one species. *Alouatta guariba* (N=2,188 records) and *Sapajus nigritus* (N=1,127) were the species with the most records. *Callicebus barbarabrownae* (N=35), *Leontopithecus caissara* (N=38), and *Sapajus libidinosus* (N=41) were the species with the least records. Recorded primate densities varied from 0.004 individuals/km² (*Alouatta guariba* at Fragmento do Bugre, Paraná, Brazil) to 400 individuals/km² (*Alouatta caraya* in Santiago, Rio Grande do Sul, Brazil). Our dataset reflects disparity between the numerous primate census conducted in the Atlantic Forest,

in contrast to the scarcity of estimates of population sizes and densities. With these data, researchers can develop different macroecological and regional level studies, focusing on communities, populations, species co-occurrence and distribution patterns. Moreover, the data can also be used to assess the consequences of fragmentation, defaunation, and disease outbreaks on different ecological processes, such as trophic cascades, species invasion or extinction, and community dynamics.

D. Key words: biodiversity hotspot, forest fragmentation, Atelidae, Callitrichidae, Cebidae, Pitheciidae, macroecology, defaunation.

Description

The dataset comprises 10,649 independent historical and current records (from 1815 to 2017), of which 9,933 in Atlantic Forest and 716 in other biomes. All the numbers given below consider only the records in the Atlantic Forest (cf. "inside the 20km polygon" in the dataset). The records of the Atlantic Forest include most forest types of the Atlantic Forest domain (Dense Ombrophilous, Open Ombrophilous and Mixed Ombrophilous forest; Semideciduous and Deciduous forest; Altitude fields and Pioneer formations) in Brazil, Paraguay and Argentina (Ribeiro et al. 2009, Morrone 2014) as well as records in urban fragments, cabrucas (cacao plantations shaded by native and exotic tree species), and plantations of *Eucalyptus* spp. and *Pinus* spp. (Figure 1). Most of the records were in Ombrophilous (29%) and Semideciduous (49%) forests, which are the dominant vegetation types of Atlantic Forest (Ribeiro et al. 2009). About 71% of the records come from peer-reviewed articles or other published material such as theses and technical reports, and 29% come from unpublished data from the authors.



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374 **Figure 2. Distribution of the records of primate communities of the ATLANTIC-**
375 **PRIMATES dataset in the Atlantic Forest.** Records are from 1983 to 2017; several
376 populations may thus be extinct today. Each colored dot indicates a primate community
377 of 1 to 6 species. The gray colors show the domain of the Atlantic Forest and the green
378 colors show the remaining Atlantic Forest patches (Ribeiro et al. 2009).

379

380 The Atlantic Forest records are divided into three sets of raw data: communities (N=2,037
381 records, quantitative or not, from 681 communities) (Figure 2), occurrences (N=7,442,

382 not quantitative), and quantitative data (N=700) (Figure 1). Quantitative data from studies
383 aiming to sample primate communities were repeated in the community dataset so that
384 the user can easily reconstitute the community from a single table.
385 Our dataset includes location records of 26 native species belonging to six genera (Figures
386 3 to 8), as well as one exotic species from the Amazonia, *Saimiri sciureus* (Table 1). We
387 gathered 891 records for Critically Endangered species, 2,144 for Endangered species,
388 1,013 for Vulnerable species and 1,845 for Near Threatened species. We also gathered
389 186 records of species out of their presumed original distribution ranges (*Callithrix*
390 *penicillata*, *C. jacchus*, and *S. sciureus*) or that were introduced within the original
391 distribution range but from where it has been extirpated, such as *Leontopithecus*
392 *chrysopygus* (cf. "allochtone" in the dataset). Finally, we compiled 30 records of hybrids,
393 from the *Callithrix* and *Alouatta* genus. Although the dataset results from the effort to
394 gather a maximum of current, and to a lesser extent, historical occurrence localities of the
395 Atlantic Forest primates, it cannot be considered as an exhaustive list of primate records.
396 The species with the most records of our dataset were *Alouatta guariba* (N=2,188 records)
397 and *Sapajus nigritus* (N=1,127), the two species with the largest distributions in the
398 Atlantic Forest. The species with the fewest records were *Callicebus barbarabrownae*
399 (N=35), *Leontopithecus caissara* (N=38), and *Sapajus libidinosus* (N=41) (Figure 9). The
400 low number of records results from the restricted distribution of these species. On
401 average, primate communities of the Atlantic Forest were composed of 2±1 species
402 (median=2, range=1-6). About 40% of primate communities contain only one species and
403 only seven communities contain six species (Figures 2 and 10).
404 Only 7% (700/9,933) of records present quantitative data, which means that the
405 abundances or densities of primate populations were estimated in few areas. Most of
406 population estimates (36%) were obtained through line transect method (see Buckland et

al. 2010), with a sampling effort varying from 1.6 km to more than 618 km or surveys (12%), with sampling effort varying from 8.8 h to 32.3 h. Primate densities vary from 0.004 individuals / km² (*Alouatta guariba* in Fragmento do Bugre, Paraná, Brazil) 400 individuals/km² (*Alouatta caraya* in Santiago, Rio Grande do Sul, Brazil).

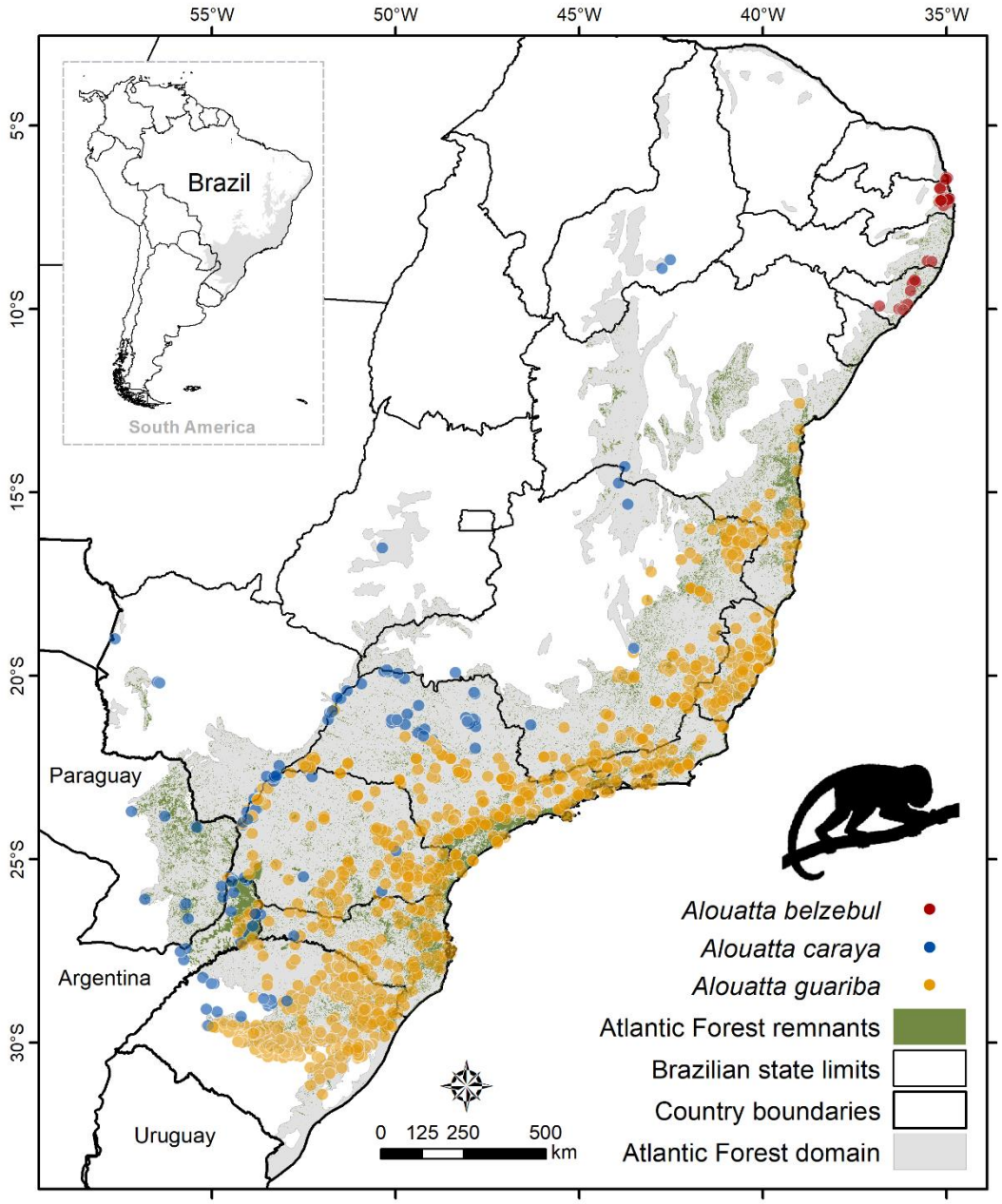


Figure 3. Distribution of the records of the genera *Alouatta* of the ATLANTIC-PRIMATES dataset in the Atlantic Forest. Records are from 1817 to 2017; several populations may thus be extinct today. The gray colors show the domain of the Atlantic Forest and the green colors show the remaining Atlantic Forest patches (Ribeiro et al. 2009). Hybrids and species registered as *Alouatta* sp. are not represented.

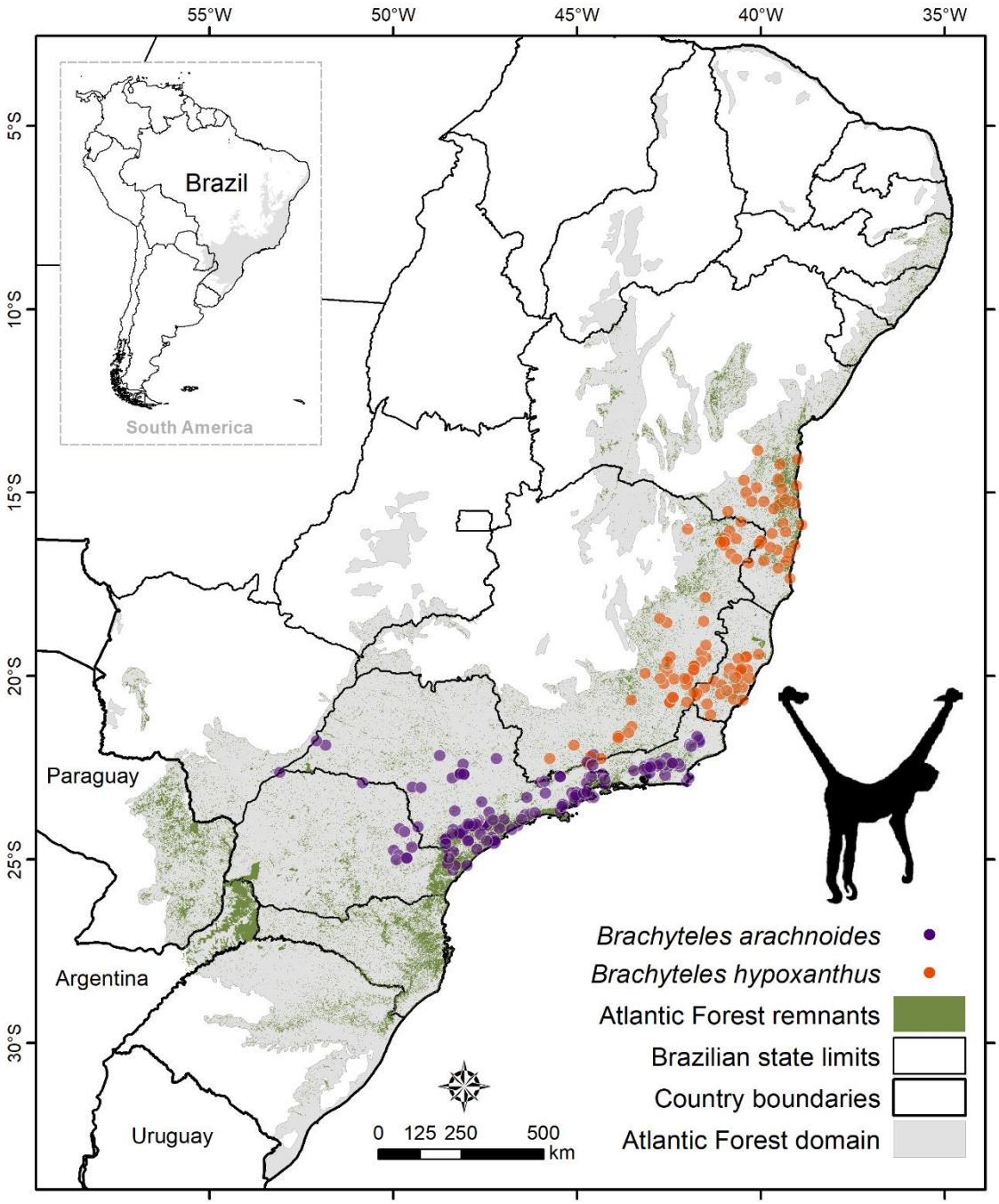
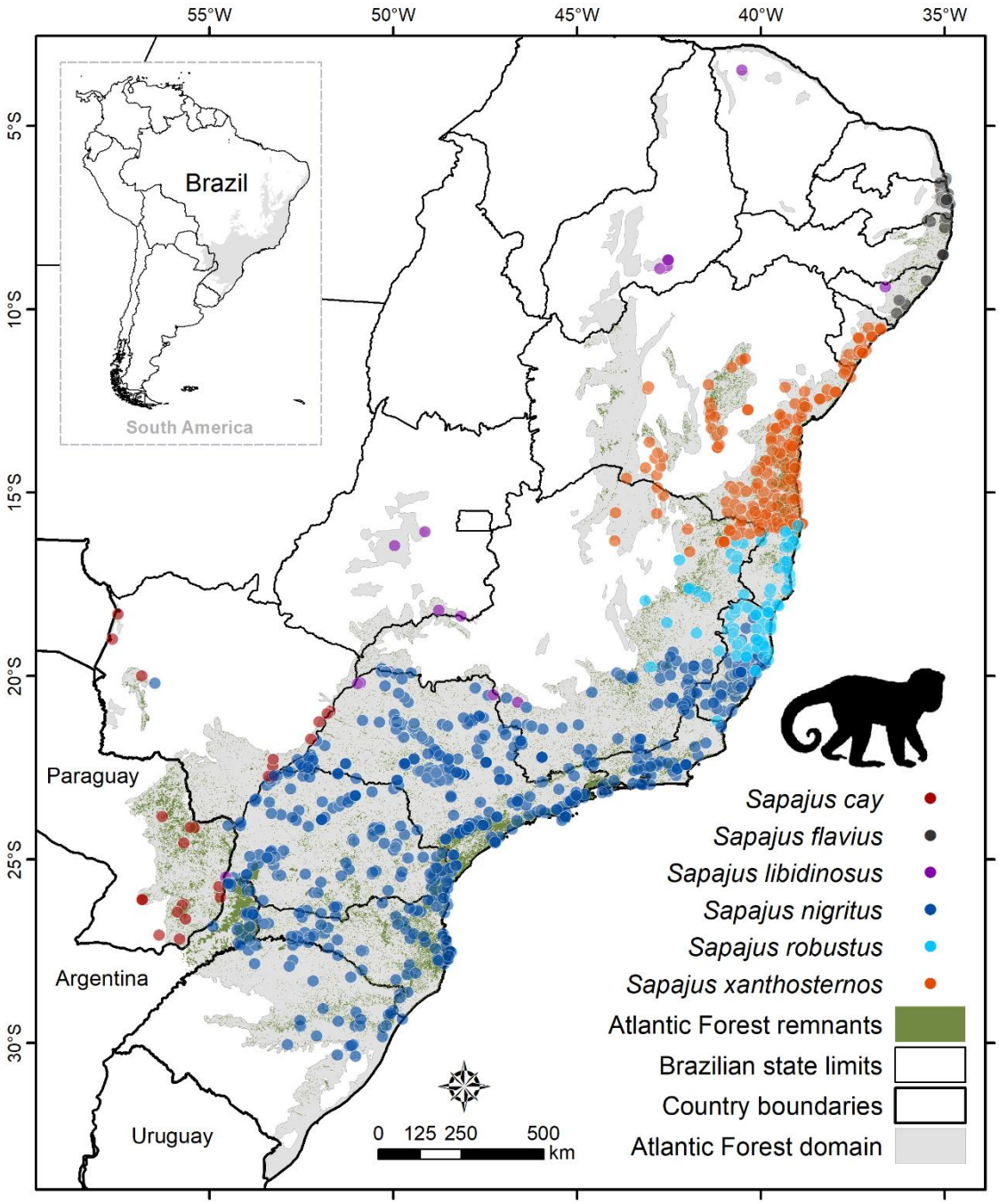


Figure 4. Distribution of the records of the genera *Brachyteles* of the ATLANTIC-PRIMATES dataset in the Atlantic Forest. Records are from 1815 to 2017; several populations may thus be extinct today. The gray colors show the domain of the Atlantic Forest and the green colors show the remaining Atlantic Forest patches (Ribeiro et al. 2009).



423

424 **Figure 5. Distribution of the records of the genera *Sapajus* of the ATLANTIC-**
425 **PRIMATES dataset in the Atlantic Forest.** Records are from 1817 to 2017; several
426 populations may thus be extinct today. The gray colors show the domain of the Atlantic
427 Forest and the green colors show the remaining Atlantic Forest patches (Ribeiro et al.
428 2009). Species registered as *Sapajus* sp. are not represented.

429

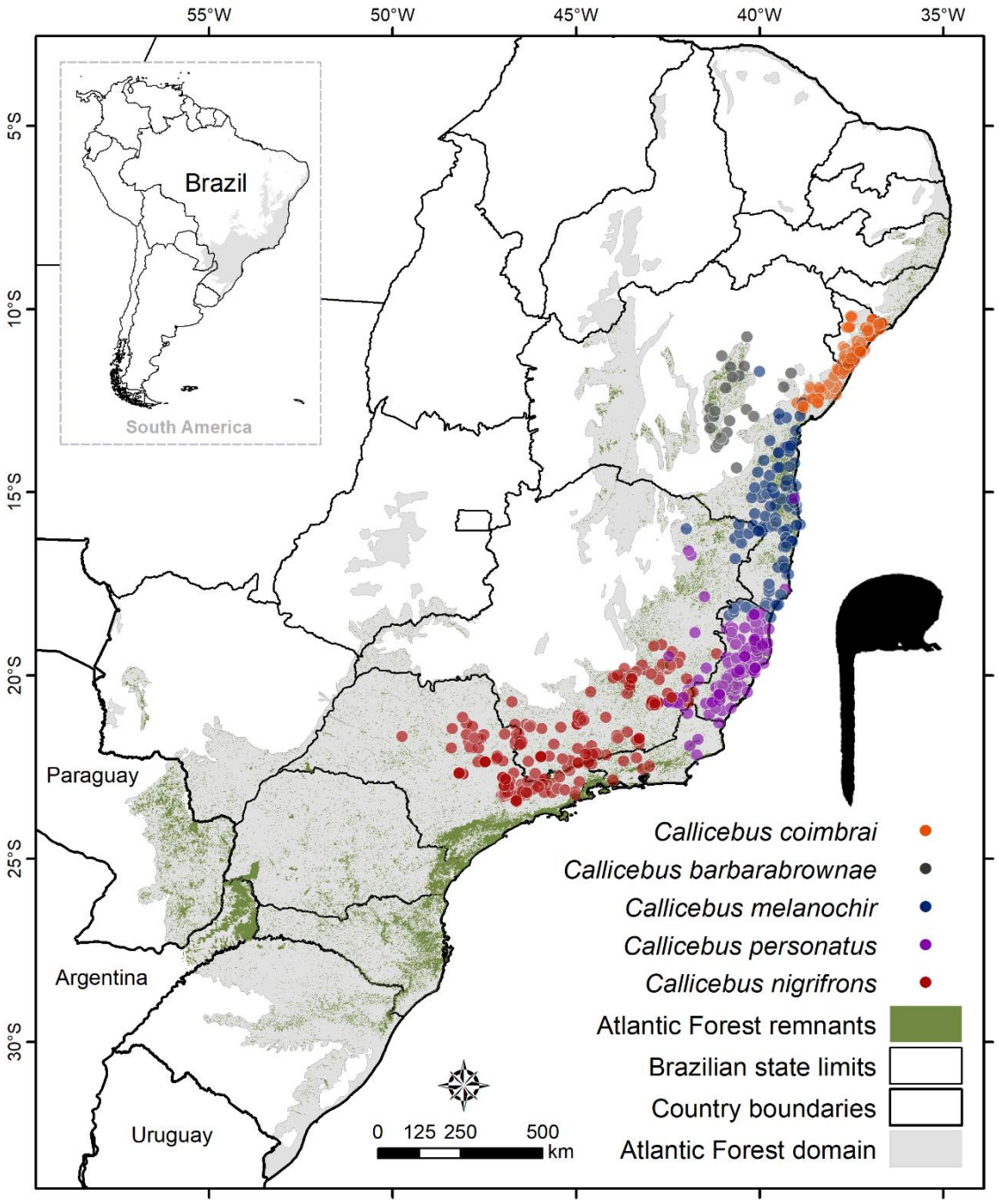
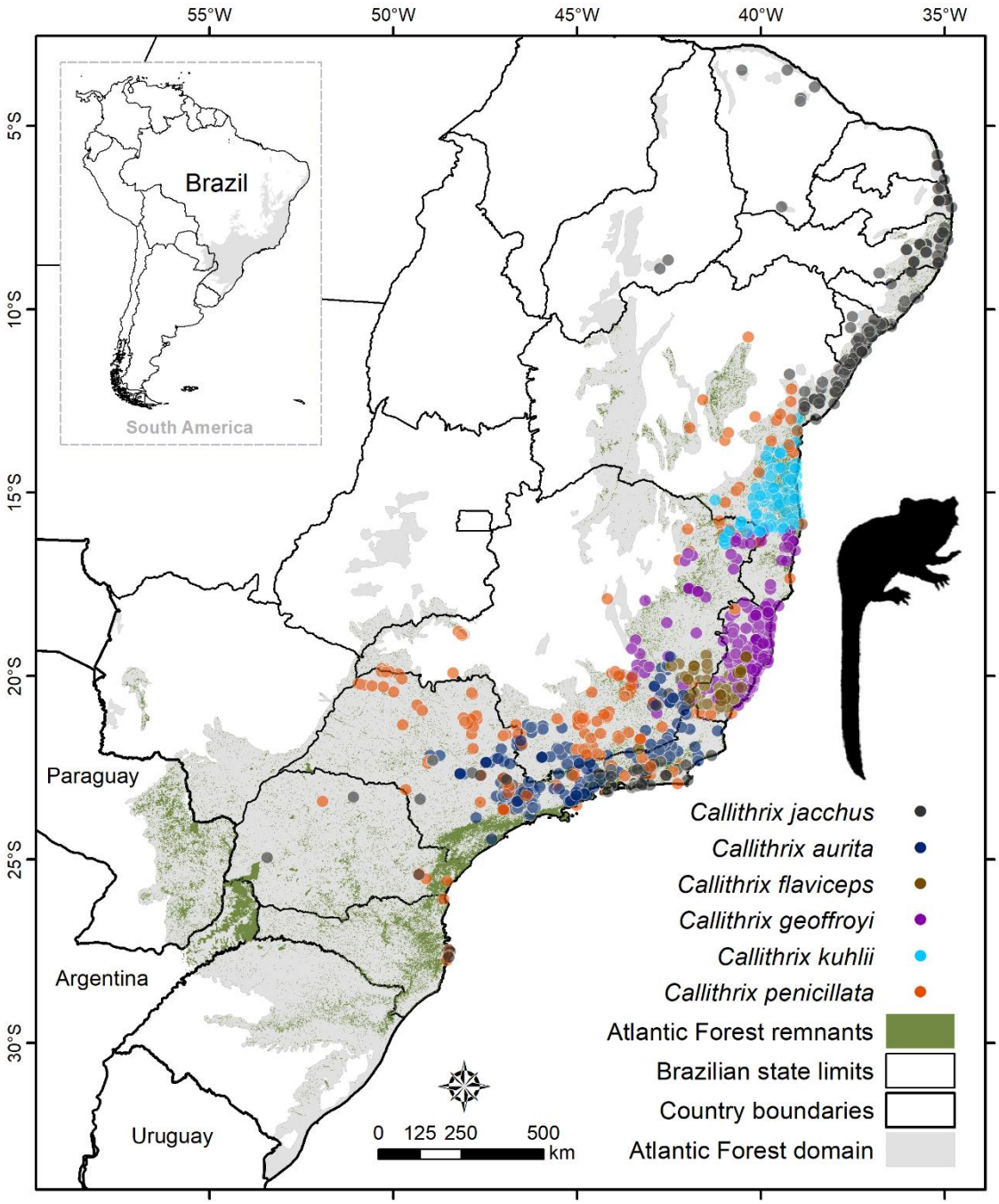


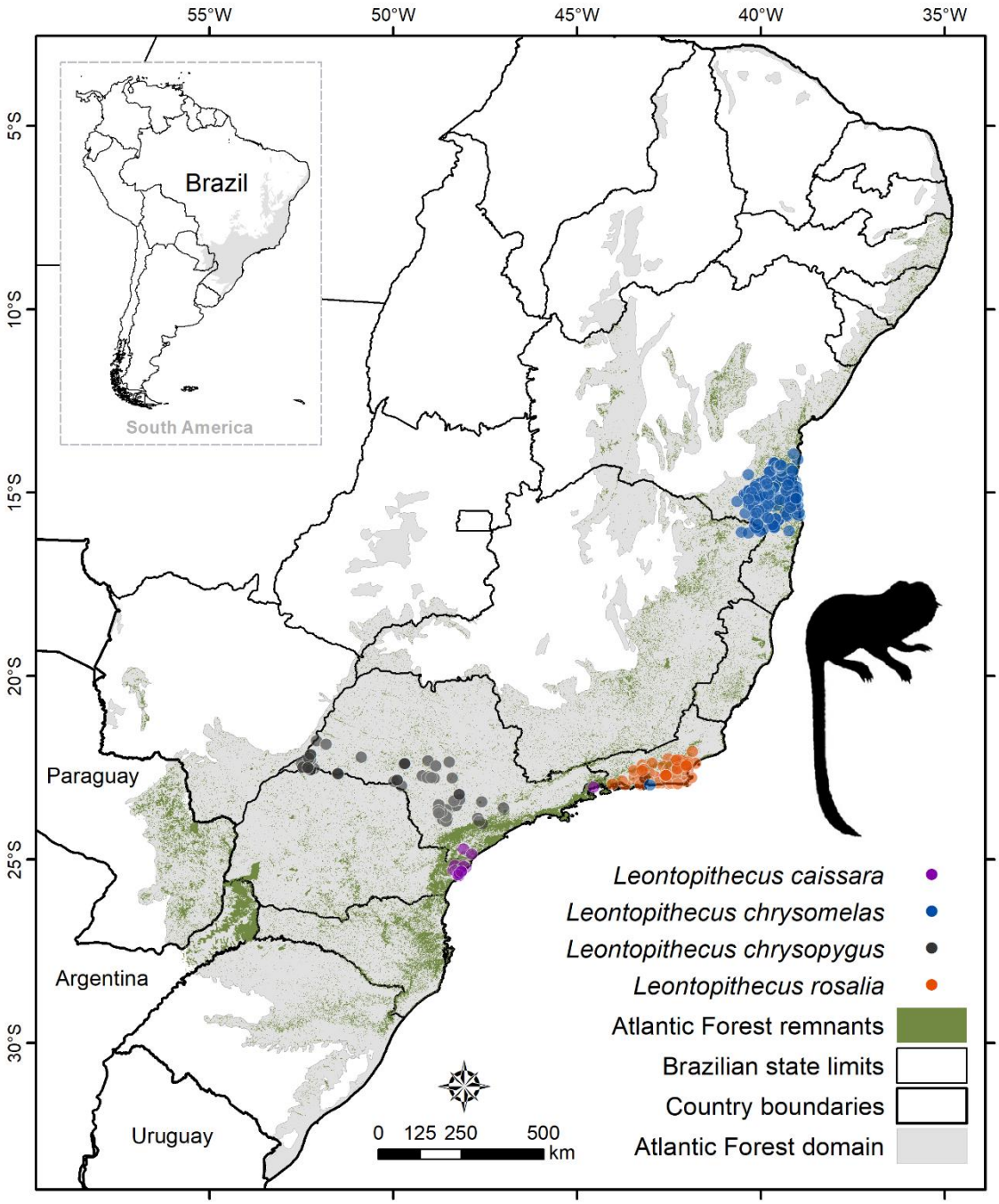
Figure 6. Distribution of the records of the genera *Callicebus* of the ATLANTIC-PRIMATES dataset in the Atlantic Forest. Records are from 1820 to 2017; several populations may thus be extinct today. The gray colors show the domain of the Atlantic Forest and the green colors show the remaining Atlantic Forest patches (Ribeiro et al. 2009). Species registered as *Callicebus* sp. are not represented.



437

438 **Figure 7. Distribution of the records of the genera *Callithrix* of the ATLANTIC-**
439 **PRIMATES dataset in the Atlantic Forest.** Records are from 1815 to 2017; several
440 populations may thus be extinct today. The gray colors show the domain of the Atlantic
441 Forest and the green colors show the remaining Atlantic Forest patches (Ribeiro et al.
442 2009). Hybrids and species registered as *Callithrix* sp. are not represented.

443



444

445 **Figure 8. Distribution of the records of the genera *Leontopithecus* of the**
446 **ATLANTIC-PRIMATES dataset in the Atlantic Forest.** Records are from 1815 to
447 2017; several populations may thus be extinct today. The gray colors show the domain of
448 the Atlantic Forest and the green colors show the remaining Atlantic Forest patches
449 (Ribeiro et al. 2009).

450

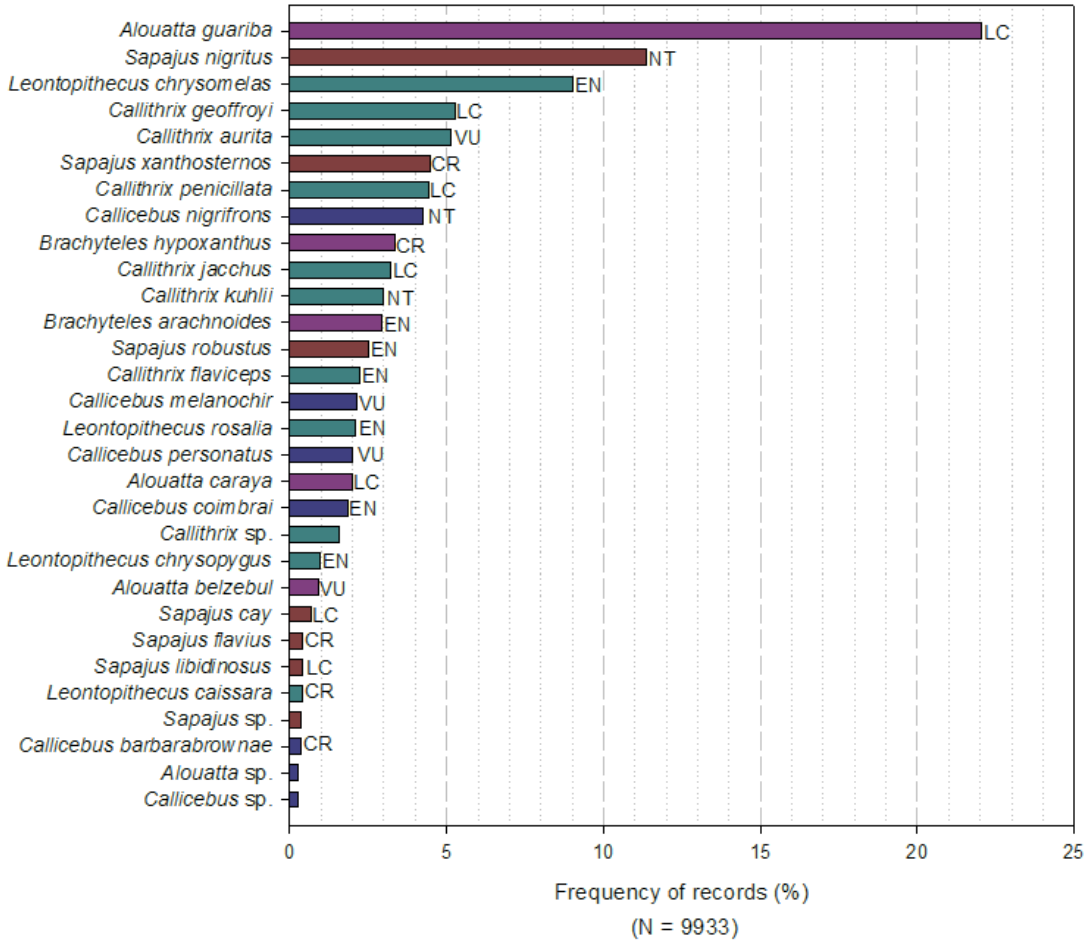
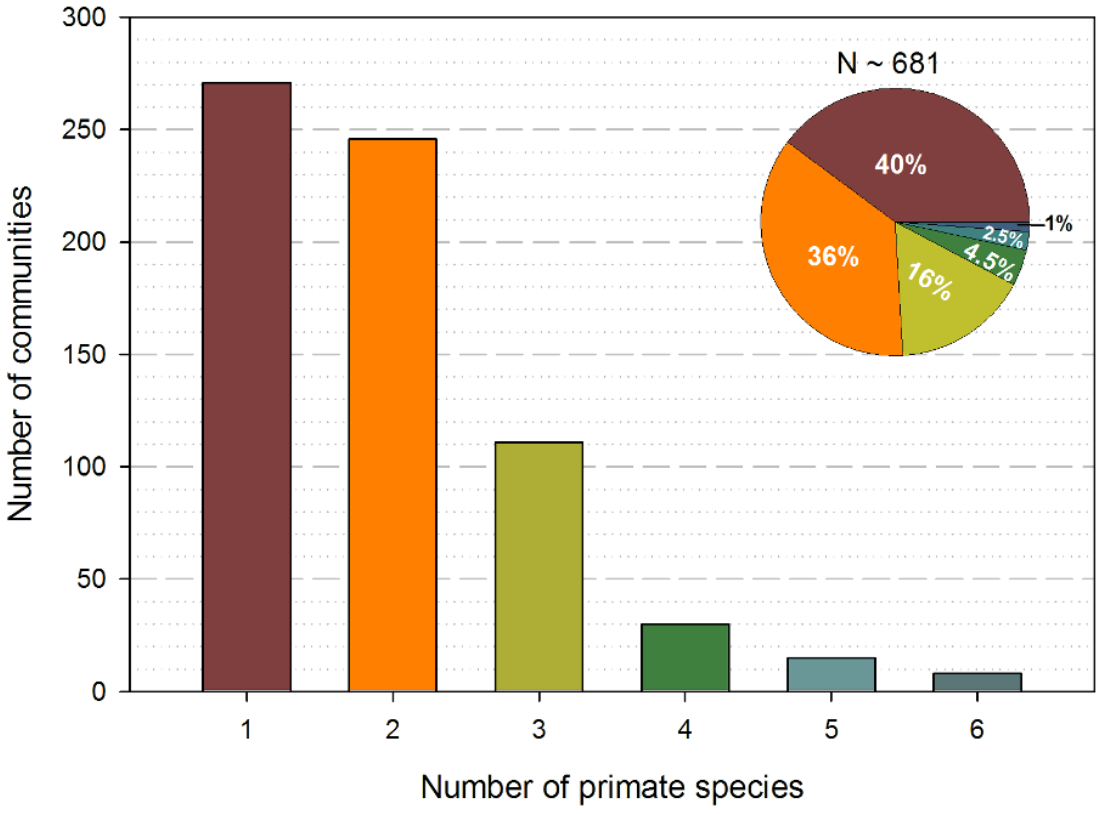


Figure 9. Percentages of records of each primate species of the ATLANTIC-PRIMATES dataset. Species without confirmed identification (sp.) and hybrids are not represented. Colors refer to primate families. IUCN Conservation status is indicated as CR= Critically endangered, EN=Endangered, LC= Least Concern, NT= Near Threatened, VU=Vulnerable



458
459
460 **Figure 10. Species richness of primate communities in the Atlantic Forest.**
461
462

463 **CLASS II. RESEARCH ORIGIN DESCRIPTORS**

464

465 **A. Overall project description**

466

467 **Identity:** A compilation of records of primate occurrence and community composition in
468 the Atlantic Forest of Brazil, Argentina and Paraguay.

469

470 **Period of Study:** Dates of source publications range from 1820–2017 (data collection
471 from 1815 to 2017).

472

Objectives: Our objectives were: (1) to make unpublished data of primate occurrences and communities publicly available, together with published data available in the literature in Portuguese, Spanish, and English, (2) to summarize information about the distribution of the primate species of the Atlantic Forest, and (3) to allow the identification of gaps in primate studies in the Atlantic Forest to guide future sampling efforts. Our dataset is the first attempt to produce a large-scale primate inventory, with potential applications in macroecological studies, population and community ecology research, and establishment of conservation strategies.

Abstract: Same as above.

Sources of funding: The compilation of this dataset was supported by grants and scholarships from the Fundação de Amparo à Pesquisa do Estado de São Paulo (São Paulo Research Foundation; FAPESP) numbers 2014/14739-0 (LC), 2017/08440-0 (LAP), 2017/07954-0 (LFF), 2013/50421-2 (MCR) and 2014/01986-0 (MG) and by the Conselho Nacional de Desenvolvimento Científico e Tecnológico (Brazilian Research Council, CNPq) numbers 141813/2017-2 (AS). MG, MCR (process #312045/2013-1; #312292/2016-3), and AGC receive research grants and fellowships from CNPq. The studies compiled in our dataset were funded by grants, scholarships and fellowships given by CNPq (RCA, AGC, JCBM -303154/2009-8 and 303306/2013-0, CRB, RBM-503372/2014-5 and 150123/2018-3, SFF), Conservation Leadership Programme (RCA), Fundação Grupo Boticário de Proteção à Natureza (number 1037_20151, WPM, CRB, FdOG, JSR and TCM-0939-20121, SFF), FACEPE (JPSA BCT- 0025.2.05/17), The Rufford Foundation (number 1966-1, ASF, JSR and TCM - 11495-1), Idea Wild (ASF, IA, MSDB, IH, MNBdR, RH, JSR, TCM), Comissão de Aperfeiçoamento Profissional

498 do Ensino Superior (Coordination for the Improvement of Higher Education Personnel,
499 CAPES) (ASF, MSCM, AP, MNBdR, RH, JCBM - PNPD 2755/2010, AAL, MCR -
500 PROCAD/CAPES project # 88881.068425/2014-01, JPSA - PNPD 527091, RRDCA),
501 Fundação de Amparo à Pesquisa do Estado da Bahia (Bahia Research Foundation,
502 FAPESB; ASF-0156/2016, CC, JSR-2366/2012 and 1760/2013), Michelin plantations
503 Ltd. (ASF), Universidade Estadual de Santa Cruz (ASF), Fundação de Amparo ao Ensino
504 e Pesquisa (FAEP) (MSCM, AP), FAPESP (LLS-2014/02438-6, MNBdR, CCG-
505 2012/14245-2, EFdL-2006/61778-5), Secretaria da Saúde do Rio Grande do Sul
506 (MABA), CONICET (the Argentinean Consejo Nacional de Investigaciones Científicas
507 y Técnicas - PIP 6318) (IA, MSDB, IH, MCB), Cleveland Metropark Zoo (Scott
508 Neotropical Fund) (IA, MSDB, IH), Primate Conservation Inc. (IA, MSDB, IH, RBM),
509 Conservation International (Primate Action Fund) (IA, MSDB, IH, RBM), International
510 Primatological Society (Conservation Grant) (IA, MSDB, IH), the Rowe Wright Primate
511 Fund (IA, MSDB, IH), American Society of Primatologists (Conservation Small Grant
512 Award) (IA, MSDB, IH), The Mohammed bin Zayed Species Conservation Fund (grant
513 #10251570) (IA, MSDB, IH) and grant 12055114 (RBM), WWF-Brasil (AGC), WWF-
514 EFN (Professional Development Grant; MCB), National Geographic Society (AGC),
515 Fauna & Flora International (AGC), US Fish (RH), Wildlife Service (RH), Fundação de
516 Amparo à Pesquisa do Estado de Minas Gerais - FAPEMIG (RH, RGTC - Program
517 BIOTA MINAS APQ 03549-09), Fundação de Amparo à Pesquisa do Estado do Rio
518 Grande do Sul - FAPERGS (JCBM), American Society of Primatologists (JCBM),
519 Pontifícia Universidade Católica do Rio Grande do Sul (JCBM), Petrobras (PCRF-
520 PRH/PB211), Fundação de Amparo à Pesquisa e Inovação do Espírito Santo (FAPES)
521 (ACSA- 0607/2015 and 510/2016), CNPq/CAPES/FAPs/PELD (CB-
522 88887.140649/2017-00), Pró-Reitoria de Pesquisa e Pós-Graduação da Universidade

Estadual de Santa Cruz (PROPP/UESC; CC), Programa de Formação de Recursos Humanos da Petrobras-PRH-PB 211 (Petrobras Human Resources Training Program) number 6000.0071551.11.4 (TCM)), Conservation International do Brasil and PROBIO/MMA (Projeto de Conservação e Utilização Sustentável da Biodiversidade Biológica Brasileira – PROBIO – Subprojeto " Inventário Biológico nos Vales do Rio Jequitinhonha e Muriqui nos Estados de Minas Gerais e Bahia", Edital 02/2001 - process number 68.0033/02-5, FRdM), Instituto Chico Mendes de Conservação da Biodiversidade – ICMBio (MMVM, GL, LJ, EM, GB, RBA).

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B. Specific subproject description

Site description: The Atlantic Forest was one of the largest rainforests in the world. It encompasses tropical and subtropical evergreen and semideciduous forests lying within the eastern coast of Brazil and small areas in northeastern Argentina and southeastern Paraguay (Morellato and Haddad 2000). As an important biodiversity hotspot in South America (Willis et al. 2007), the Atlantic Forest ecosystem supports up to 8% of all species in the world and presents one of the highest rates of endemism (Myers et al. 2000). The Atlantic Forest harbors 15,519 plant species (3,343 trees) (Zappi et al. 2015), 350 fishes (MMA 2010), 543 amphibians (Haddad et al. 2013), 200 reptiles (Bérnils and Costa 2015), 891 birds (Moreira-Lima 2014), and 321 mammals (Graipel et al. 2017). Nineteen (73%) of its 26 primate species are endemic to this forest (Graipel et al. 2017).

Currently, the Atlantic Forest covers <12% of its original area. More than 80% of its remnants are small fragments (<50 ha) (Ribeiro et al. 2009). Seventy-two percent of the Brazilian human population (~145 million people) lives within the Atlantic Forest domain (IBGE 2013), and the industrialization, agricultural and unplanned urban expansions are

547 the main causes of landscape fragmentation and ecosystem deterioration (Scarano and
548 Ceotto 2015). The negative effects of anthropogenic impacts, including poaching,
549 extirpated the large mammals - including primates - from 88% of Atlantic Forest
550 fragments (Galetti et al. 2009, Jorge et al. 2013). The immediate conservation of the
551 Atlantic Forest is critically urgent to stop ongoing local extinctions of primates and other
552 large mammals.
553
554 **Data compilation:** We did an extensive literature search on Google Scholar to find
555 published documents that report the geographic location of primate communities and
556 populations in the Atlantic Forest using the following combination of keywords in
557 English: “primates”, “communities”, “Atlantic Forest”, “survey”, “occurrence”; and their
558 equivalent in Portuguese. We did not restrict the search to checklist papers such as papers
559 related to species geographic distribution, distribution summaries or list of species. In the
560 same way, we did not limit our search to specific years of publication or methods. Here,
561 we compiled 654 papers and 41 book chapters published between 1820 to 2017. We also
562 compiled 198 documents from the grey literature (using the same keywords as above)
563 such as theses, dissertations, monographs, management plans, and congress abstracts. We
564 carried out this search in online repositories of several Brazilian universities and in the
565 database of management plans of ICMBio (Instituto Chico Mendes de Conservação da
566 Biodiversidade), the agency that manages the federal system of protected areas in Brazil.
567 Simultaneously, we created a collaborative network of researchers who had
568 unpublished data on primate occurrence and community composition in the Atlantic
569 Forest and invited them to share their data in this dataset. In addition, we collected
570 occurrence data in the following museums and institutions: Museu
571 Nacional/Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil (MNRJ), Museu

572 de Zoologia da Universidade de São Paulo, São Paulo, Brazil (MZUSP), Centro de
573 Primatologia do Rio de Janeiro, Rio de Janeiro, Brazil (CPRJ), Museu da Fauna, Rio de
574 Janeiro, Brazil (MFRJ), Museu Paraense "Emílio Goeldi", Pará, Brazil (MPEG),
575 Fundação Zoobotânica do Rio Grande do Sul (FZBRS), Museu de História Natural do
576 Capão da Imbuia, Paraná, Brazil (MHNCI), Centro Universitário Barra Mansa, Rio de
577 Janeiro, Brazil (CUBM), Pontíficia Universidade Católica do Rio Grande do Sul, Rio
578 Grande do Sul, Brazil (PUC-RS), Universidade Federal da Paraíba (UFPB), Paraíba,
579 Brazil, Universidade Federal do Rio Grande do Norte (UFRN), Rio Grande do Norte,
580 Brazil, Universidade Federal de Viçosa (UFV), Minas Gerais, Brazil, Universidade de
581 Brasília (UnB), Brasília, Brazil, Universidade Federal de Santa Catarina (UFSC), Santa
582 Catarina, Brazil, Museu Arquidiocesano Dom Joaquim, Santa Catarina, Brazil (MADJ),
583 Museu do Colégio Agrícola de Camboriú Gert Hering, Santa Catarina, Brazil (MCAGH),
584 Museu do Seminário Coração de Jesus, Santa Catarina, Brazil (MSCJ), Museu de
585 Ciências Naturais, Rio Grande do Sul, Brazil (MCN), Museu de História Natural, Lisbon,
586 Portugal (MHNL), Museu Bocage, Lisbon, Portugal (MBL), Museo de Historia Natural
587 de Valparaíso, Chile (MHNV), Museu Argentino de Ciências Naturais Bernardino
588 Rivadavia, Argentina (MACN), Museum Zoologicum Bogoriense (MZB), American
589 Museum of Natural History, New York (AMNH), Field Museum of Natural History,
590 Chicago (FMNH), British Museum (Natural History), London (BMNH), Smithsonian
591 Institution National Museum of Natural History, Washington, D. C. (USNM), and Kansas
592 University Natural History Museum, Lawrence, Kansas (KUNHM).
593
594 **Research Methods:** In this dataset, we included all studies that report the geographic
595 location of primate communities or occurrences in the Atlantic Forest, regardless of year
596 or sampling method. We converted the coordinates of all records to decimal degrees with

datum WGS 84. Some coordinates refer to specific localities such as municipalities, roads or farms and not to the sampling areas. These records belong mainly to historical occurrences and we labeled them as "Not precise" in the "PRECISION" column.

We defined the boundaries of the Atlantic Forest using the same procedure as Muylaert et al. (2017) and Hasui et al. (2018), and described as followed. We merged available geographic information from the main boundaries that inform the extent of the Atlantic Forest: the official boundary used by the Brazilian government (IBGE 2016), the Atlantic Forest Law initiative boundary (MMA 2006), the boundary used to extract the remaining Atlantic Forest (Ribeiro et al. 2009), and the boundary provided by Olson et al. (2001), that was also used by the WWF and that is available online (https://www.worldwildlife.org/publications/terrestrial-ecoregions-of-the-world). We made a subset of the Atlantic Forest and Atlantic Dry Forest categories inside and outside Brazil from the terrestrial ecosystem shapefile (Olson et al. 2001). We considered the records in the Atlantic Forest when they were within a 20-km buffer around the Atlantic Forest boundaries (see the BUFFER_20km variable in the "Variable information" tables). However, we did not exclude the records from other biomes of species naturally occurring in the Atlantic Forest. We extracted spatial and geographical information available in several databases using ArcGIS 10.5 and the "Spatial join" and "Extract values to points" functions to access the data of each primate record. We used data from IBGE (2016) for municipalities and states data, USGS (2001) for altitude data, WorldClim 1.4 (Hijmans et al. 2005) for annual mean rainfall and annual mean temperature data and Ribeiro et al. (2009) for type of vegetation.

We organized the entire dataset in three sub-datasets: Quantitative information, Community information and Occurrence information. Quantitative information (Table 3) contains all quantitative population data, such as abundance (individuals/10 km) and

622 density (individuals/km² or individuals/ha), obtained mainly by the linear transect
623 method. Community information (Table 4) contains all records of natural communities in
624 the Atlantic Forest, with or without quantitative data. When a species recorded in a
625 community contains quantitative information, we included it, as well, in the quantitative
626 dataset. The community dataset includes information recorded independently with several
627 sampling methods (camera trap, interview, line transect, survey, playback, visualization,
628 spontaneous vocalization) or combinations of them. Occurrence information (Table 5)
629 contains all individual and occasional records of primate species without quantitative
630 information. This occurrence dataset was also based on several sampling methods
631 (camera trap, interview, line transect, museum, playback, road kill, survey, visualization,
632 spontaneous vocalization) or a combination of them. When several records were available
633 for a same study site (but from different years and/or different authors), we let them all
634 in the datasets to enable temporal analysis. In addition, these records sometimes come
635 from different places of a same study site, hence allowing the comparison of primate
636 abundances, occurrences and/or communities. Missing information was labeled as "NA"
637 in the dataset.

638 The following literature was used to compile the records:

639 Krieg 1948, Coimbra-Filho 1970, 1976, Milton 1984, Stallings et al. 1990, Silva and da
640 Cruz 1993, Antonietto and Mendes 1994, Martuscelli et al. 1994, Valladares-Pádua and
641 Cullen Jr 1994, Oliveira and Manzatti 1996, Fontes et al. 1996, Hill et al. 1997, Vieira
642 and Mendes 1999, Chiarello 1999, 2000, Martins and Setz 2000, Cullen et al. 2000,
643 Passos and Alho 2001, Simas et al. 2001, Grativol et al. 2001, Guimarães and Strier
644 2001, Keuroghlian and Passos 2001, Price et al. 2002, Vilela and Faria 2002, Buss and
645 Romanowski 2002, Codenotti et al. 2002, de Souza et al. 2002, Hirsch et al. 2002b,
646 Koehler et al. 2002, Kowalewski et al. 2002, Gheler-Costa et al. 2002, ICMBio 2002,

Lapenta et al. 2003, 2007, Medici et al. 2003, Pacheco et al. 2003, Rohe et al. 2003, Amaral et al. 2003, Aguiar et al. 2003, Castro 2003, Aguiar et al. 2005, Cunha 2003, Aguiar et al. 2007a, 2011, 2014, French et al. 2003, Cunha 2004, Lisboa et al. 2004, Mendes and Ades 2004, Miranda et al. 2004, 2006b, Oklander et al. 2004, Paim et al. 2004, Koch and Bicca-Marques 2004, Cáceres 2004, São Bernardo and Galetti 2004, Melo et al. 2004, Agostini and Visalberghi 2005, ICMBio 2005, Loretto and Rajão 2005, Mendes et al. 2005a, 2005b, Miller and Dietz 2005, Strier 2005, Strier and Ziegler 2005, Talebi and Soares 2005, Garcia 2005a, 2005b, Hankerson and Dietz 2005, Martins 2005b, 2006, 2008, Rocha-Mendes et al. 2005, Vaz 2005, ICMBio 2006, IEF 2006a, 2006b, Jerusalinsky et al. 2006, Ludwig et al. 2006, Pontes et al. 2006, Negrão and Valladares-Pádua 2006, Rapaport and Ruiz-Miranda 2006, Ruiz-Miranda et al. 2006, Waga et al. 2006, Chaves et al. 2006, Strier and Boubli 2006, Lyra-Neves et al. 2007, Moura 2007, 2015, ICMBio 2007, Mourthe et al. 2007, Sabbatini et al. 2007, Bianchi and Mendes 2007, Büntge and Pyritz 2007, Franklin et al. 2007, Alfaro 2007, Hankerson et al. 2007b, Izar et al. 2007, Janson 2007, Júnior and Zara 2007, Martins et al. 2007, 2015, 2016, Kasper et al. 2007, Alves and Zaú 2007, Baldovino and Di Bitetti 2008, ICMBio 2008f, Modesto et al. 2008, Passamani 2008, Penter et al. 2008, Visalberghi et al. 2008, Wheeler 2008, 2009a, de Oliveira et al. 2008, Fagundes et al. 2008, Freitas et al. 2008, Cäsar and Young 2008, Fortes and Bicca-Marques 2008, de Souza Fialho and Fernandes Gonçalves 2008, Araújo et al. 2008, Moro-Rios et al. 2008, Moreira et al. 2008, Bicca-Marques et al. 2008, 2014, Modesto et al. 2008, Santana et al. 2008a, Angonesi et al. 2009, INEA 2009, Lapenta and Procopio-de-Oliveira 2009, Mannu and Ottoni 2009, Pavé et al. 2009, 2010, Pessôa et al. 2009, Plano de manejo da RPPN Ave Lavrinha 2009, Talebi et al. 2009, Tiddi et al. 2009a, Bravo 2009, Ferreira et al. 2009, 2010, Guidorizzi and Raboy 2009, Cunha et al. 2009, Eduardo and Passamani

672 2009, Abreu Júnior and Köhler 2009, Costa et al. 2010, INEA 2010, Junior 2010,
673 Monteiro et al. 2010, Bastos et al. 2010, Souza et al. 2010, Bianchi et al. 2010, Talebi
674 and Lee 2010, Agostini et al. 2010a, Bruna et al. 2010, da Silva et al. 2010, 2013, 2016,
675 Ribeiro et al. 2010, Tonini et al. 2010, Nogueira et al. 2010, INEA 2011a, 2011b,
676 Lavina et al. 2011, Ludwig 2011, Marques et al. 2011, Montenegro 2011, Nascimento
677 and Schmidlin 2011, Nascimento et al. 2011a, 2014, Printes et al. 2011, Beltrao-Mendes
678 et al. 2011, Souto et al. 2011, Spagnoletti et al. 2011, Gomes and Lima-Gomes 2011,
679 Hilario and Ferrari 2011, 2015, Lopes and Bicca-Marques 2011, ICMBio 2012c, Maia
680 and Dias 2012, Bruno et al. 2012, Casar et al. 2012a, 2012b, de Souza Fialho et al.
681 2012, Emidio and Goncalves-Ferreira 2012, Ferreyra et al. 2012, Holzmann et al. 2012,
682 Costa et al. 2012, Penido and Zanzini 2012, Delciellos et al. 2012, Pires and
683 Cademartori 2012, Brocardo et al. 2012, Pereira et al. 2013, Rangel et al. 2013,
684 Tranquilin et al. 2013, Chaves and Bicca-Marques 2013, 2016, da Cunha and Byrne
685 2013, de Carvalho et al. 2013, 2014, dos Santos et al. 2013, Marques et al. 2013, Decker
686 and Bicca-Marques 2013, Corsini and Moura 2014, Hack 2014, Laroque et al. 2014,
687 Mendonca-Furtado et al. 2014, Rocha et al. 2014, Tisovec et al. 2014, Valenca-Silva et
688 al. 2014, Vinhas and Souza-Alves 2014, Bogoni and Hernandez 2014, Carvalho et al.
689 2014a, 2014b, 2015, Ferreguetti et al. 2014, Caselli et al. 2014, Fialho et al. 2014,
690 Guimarães 2015, INEA 2015, Liebsch et al. 2015, Malukiewicz et al. 2015, Mangalam
691 and Fragaszy 2015, Baiao et al. 2015, Pagno et al. 2015, Van Belle and Scarry 2015,
692 Culot et al. 2015, Aximoff et al. 2016, Aximoff and Vaz 2016, ICMBio 2016h,
693 Machado et al. 2016, Santos et al. 2016, Silva et al. 2016, Bueno et al. 2017, Camaratta
694 et al. 2017, Galetti et al. 2017, Hue et al. 2017, Martins 2000, 2005a, Bobadilla and
695 Ferrari 2000, Strier and Ziegler 2000a, 2004, Valladares-Padua et al. 2000, Wallace et
696 al. 2000, Bravo and Zunino 2000, Castro 2000, Correa et al. 2000, Cruz et al. 2000, Di

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Moraes and Melo 2007, Sociedade Chauá 2008, 2013a, 2013b, Becker and Mongelos 2008, Moraes et al. 2008, Oliveira et al. 2008, Dallacorte 2009, 2011, Associação Patrimônio Natural do Rio de Janeiro 2009, 2012, Patrocinio et al. 2009, Redies 2010, Simas et al. 2010, Zeller 2010, APREMAVI/ICMBio 2010, Rocha and Carvalho 2011, Associação dos Proprietários de RPPN do Estado do Ceará 2011a, 2011b, 2012, ICMBio/CPB 2011, Ecossistema Consultoria Ambiental ltda 2011, Faunativa Consultoria Ltda 2011, Socioambiental Consultores Associados Ltda 2011, 2013, Nordeste Ambiental Ltda 2016, Silva Júnior 2012, SPVS 2012, 2014, Ambientalis Engenharia 2012, APREMAVI 2012, Hack 2012, D. M. P. e Associados 2012, Oklander and Medrano 2012, Rhea Estudos e Projetos 2013, Estivalet 2013, Langa 2013, PBCM 2013, Pessoa 2013, Caiaffa 2014, Rabello et al. 2014, Velázquez and Ramírez Pinto 2014, Flesher 2014, Arauco Florestal Arapoti e Instituto Ecofuturo 2014, M. G. D. e Salvaterra 2015, Vale 2015, SAVE Projetos e Soluções Ambientais 2016, Santos and Pessoa 2016, Guapyassú 2016, Travassos et al. *in press*.

Taxonomic data: We used the taxonomy proscribed by Mittermeier et al. (2013). Therefore, we changed the identity of some primate species to the most recent nomenclature.

Validation: Specialists checked the localities recorded for each primate species and excluded the points that were erroneous. Due to changes in nomenclature, several records of *Sapajus robustus* in Minas Gerais were registered as *Sapajus nigritus*. In addition, further surveys confirmed the occurrence of *Sapajus robustus* in that region. We thus corrected these data following Martins et al. (2017).

C. Data Limitations and Potential Enhancements

Although primates are one of the best studied mammal orders, assessing the fine-scale distribution of each species and estimating their population sizes in the Atlantic Forest is an unachievable task. Therefore, we recognize the massive effort of field biologists and primatologists who collected the data compiled here, the largest dataset of primate communities and occurrences in a tropical forest biome so far amassed.

One limitation of this dataset is the relatively small number of quantitative studies in comparison with the high number of occurrence data. Line transect sampling is the preferred method to estimate primate densities (Peres 1999, Buckland et al. 2010). However, it is limited by the need of a minimum number of sightings, a number that can be difficult to reach, especially in the case of more elusive primate species or when the population density is low. For these species, the combined use of line transects and playback is a useful option that gives good results (Gestich et al. 2017) and deserves to be more extensively used.

Another issue is the uneven distribution of the sampling effort across the Atlantic Forest. For instance, three Brazilian states account for more than 50% of the records: Bahia (N=2,132, 21.5%), São Paulo (N=1,849, 18.6%), and Minas Gerais (N=1,614, 16.3%). However, they are also the biggest states in the Atlantic Forest area, which partly explains this result. It is also important to note that our dataset gathers presence-only data and not presence-absence data, which needs to be considered by the user when analyzing the data.

The occurrence of *Callithrix* hybrids of unknown parentage is another limitation of the dataset. We kept the records as *Callithrix* sp. with the observation “hybrid” in the species origin column.

Another important limitation is the low geographical accuracy reported by some studies. For instance, some coordinates refer to cities instead of to the sampled fragments. We tried to correct these coordinates using satellite images or directly contacted the authors. Otherwise, we kept the original coordinates as provided.

Study duration also varied widely, ranging from days to years. Additionally, the data collection of some longer-lasting studies was heterogeneously distributed in time with irregular inter-sample intervals.

It is known that ongoing habitat loss and fragmentation (Chiarello 2000), poaching (Galetti et al. 2009), road kills (Bueno et al. 2015), and infectious diseases (Bicca-Marques and Freitas 2010) influence the presence and size of primate populations in fragments (Chiarello 2003, da Silva et al. 2015). Therefore, the pattern of occurrence of a species at any given landscape reflects a dynamic balance of population extirpation and recolonization that is influenced by the aforementioned factors and others. The ongoing (2016-current as of February 2018) outbreak of sylvatic yellow fever in Brazil is an unambiguous example of the rapid local population extirpation or shrinking that an infectious disease can cause in a fragmented landscape such as the Atlantic Forest (Bicca-Marques et al. 2017). In addition, attention must be paid to the dates of records, ranging from 1815 to 2017. We did not determine, for each record, if the mentioned population still exists or not, since this analysis would go well beyond our objectives. However, we indicated that the population was extinct when this information was specifically provided by the authors.

Despite these limitations, this dataset is the largest and broadest that exists on the distribution of Atlantic Forest primates. We expect that the users of this dataset will be able to: 1) detect patterns of species distribution; 2) determine priority areas for primate conservation; 3) point out temporal and spatial variation of populations; 4) identify the

species with the highest need of study; 5) indicate localities or regions requiring more sampling, and 6) fulfill many other conservation-related knowledge gaps.

CLASS III. DATA SET STATUS AND ACCESSIBILITY

A. Status

Latest update: August 2018

Latest Archive date: August 2018

Metadata status: Last update 19 August 2018, version submitted

Data verification: Data from published and unpublished sources. We searched for extreme values, corrected any transcription errors and homogenized the taxonomic information.

B. Accessibility

1. Storage location and medium

The dataset can be access on the GitHub Inc. repository (https://github.com/LEEClab/Atlantic_series) in .csv format.

2. Contact persons: Laurence Culot, Universidade Estadual Paulista (UNESP), Instituto de Biociências, Departamento de Zoologia, Rio Claro (SP), 13506-900, Brazil. E-mail: lculot@rc.unesp.br; Milton C. Ribeiro, Universidade Estadual Paulista (UNESP), Instituto de Biociências, Departamento de Ecologia, Rio Claro (SP), 13506-900, Brazil. E-mail: miltinho.astronauta@gmail.com.

Proprietary restrictions: Please cite this data paper when the data are used in publications. We also request that researchers and teachers inform us of how they are using the data.

Costs: None.

CLASS IV. DATA STRUCTURAL DESCRIPTORS

A. Data Set File

Identity:

ATLANTIC-PR_References.csv,

ATLANTIC-PR_Quantitative.csv,

ATLANTIC-PR_Community.csv,

ATLANTIC-PR_Occurrence.csv

Size: 10649 records, 3545 KB

Format and storage mode: comma-separated values (.csv)

Header information: See column descriptions in section B.

Alphanumeric attributes: Mixed.

Data Anomalies: If no information is available for a given record, this is indicated as 'NA'.

B. Variable information

1) Table 2. Reference Information

2) Table 3. Quantitative Information

3) Table 4. Community Information

3) Table 5. Occurrence Information

CLASS V. SUPPLEMENTAL DESCRIPTORS

A. Data acquisition

1. Data request history: None

2. Data set updates history: None

3. Data entry/verification procedures

G. History of data set usage

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964 **TABLES**

965

966 **Table 1. Species information.** Family, IUCN conservation status and number of records
967 of the primate species reported in the ATLANTIC PRIMATES dataset. Only the records
968 within the 20 km buffer around the Atlantic Forest boundaries were considered here.
969 Species without confirmed identification (sp.) and hybrids were not included in the
970 species counting. CR= Critically Endangered, EN=Endangered, LC= Least Concern,
971 NT= Near Threatened, VU=Vulnerable

972

Family	Species	IUCN Status	Number of records
Atelidae	*Alouatta guariba*	LC	2188
	Alouatta caraya	LC	196
	Alouatta belzebul	VU	90
	Brachyteles arachnoides	EN	293
	Brachyteles hypoxanthus	CR	333
Cebidae	*Sapajus flavius*	CR	42
	Sapajus libidinosus	LC	41
	Sapajus nigritus	NT	1127
	Sapajus robustus	EN	248
	Sapajus xanthosternos	CR	443
	Sapajus cay	LC	67
	Saimiri sciureus	LC	3
Pitheciidae	*Callicebus coimbrai*	EN	182
	Callicebus melanochir	VU	212
	Callicebus nigrifrons	NT	423
	Callicebus personatus	VU	200
	Callicebus barbarabrownae	CR	35
Callitrichidae	*Callithrix penicillata*	LC	440
	Callithrix aurita	VU	511
	Callithrix flaviceps	EN	219
	Callithrix geoffroyi	LC	522
	Callithrix jacchus	LC	320
	Callithrix kuhlii	NT	295
	Leontopithecus caissara	CR	38
	Leontopithecus chrysomelas	EN	897
	Leontopithecus chrysopygus	EN	96
	Leontopithecus rosalia	EN	209

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975 **Table 2. Reference information.** Description of the fields related to references.

Type of information	Field	Description	Levels	Example
REFERENCE INFORMATION	REF_ID	Reference identification that links the references to a specific record in the dataset	REF0001 - REF0894	REF0648
	PUB_TYPE	Type of the publication: "Thesis" refer to theses, dissertations and monographs; "Technical document" refer to reports and wildlife management programs	Article Book Congress abstract Technical document Thesis Unpublished data	Book
	REFERENCE	Study reference in *Ecology* style	856 references	Rylands, A. B., Coimbra-Filho, A. F., and Mittermeier, R. A. 1993. Systematics, geographic distribution, and some notes on the conservation status of the Callitrichidae. In: Rylands, A. B. (ed.). Marmosets and tamarins: Systematics, behaviour, and ecology. Oxford University Press. 11-77.

976

977 **Table 3. Quantitative information.** Description of the fields related to primate
978 occurrence data with quantitative information.
979

Type of information	Field	Description	Levels	Example
QUANTITATIVE INFORMATION	REF_ID	Reference identification that links the references to a specific record in the dataset	REF0001 - REF0894, and unpublished data	REF0001
	ORDEMBD	Identification code of each species record. Each code is exclusive and represents the record in the sampling area. Records made in the same area in different studies received different codes.	Agostini_etal_1 - Agostini_etal_19 Almeida_AS_plan_1_7 - Almeida_AS_plan_1_137 CarvalhoM_etal_1 - CarvalhoM_etal_15 CPB_48 EduardoC_FernandoP_33 - EduardoC_FernandoP_84 GabrielaH_1 – GabrielaH_13 Gestich_3 – Gestich_22 HirschA_663 – HirschA_3942 KnoggeC_21 - KnoggeC_41 LaurenceC_1 - LaurenceC_377 LimaF_etal_125 – LimaF_etal_136 MarquesSantosP&GontijoNRG_1 - MarquesSantosP&GontijoNRG_19 Mendes-Pontes_A_1 - Mendes-Pontes_A_35 MoraesA_plan_1_1 - MoraesA_plan_1_4	LaurenceC_1

			New_Refs_1 – New_Refs_56 OliveiraL_1 – OliveiraL_39 PassamaniM_1 – PssamaniM_13 PlazaM_9 – PlazaM_1531 RenatoH_1 RochaA_29 - RochaA_31 SetzE_etal_1 - SetzE_etal_6 Souza-AlvesC_1 – Souza-AlvesC_3 Srbek-AraujoAC_et_34 – Srbek-AraujoAC_etal_37 ZagoL_30	
	STUDY_AIM	Information about the objective of the study. ABD: the objective of the study was to obtain quantitative population data (abundance, density) of a given species; ABD-COMM: the objective of the study was to inventory the entire primate community in a given area, in addition to obtaining quantitative population data of all or some of the species.	ABD ABD-COMM	ABD-COMM
	SPECIES	Species name in that sampling area		*Alouatta guariba*
	SP_ORIGIN	Information about the origin of that species in that sampling area. Autochtone: if the	Autochtone Allochtone Hybrid	Autochtone

		species is native to that sampling area. Allochtone: if the species is introduced or exotic in that sampling area. Hybrid: If individuals are the result of hybridization between species in the sampling area.		
	SITE	Name of the sampling area provided by the reference paper.		Parque Estadual Morro do Diabo
	AREA_HA	Area of the sampling site in hectares provided by the reference paper.	0.9 - 150000	35800
	MUNICIPALITY	Municipality of the sampling site.		Teodoro Sampaio
	STATE	State or province of the sampling site.	17 states/provinces	São Paulo
	COUNTRY	Country of the sampling site.	Argentina Brazil	Brazil
	LONGITUDE_X	Longitude corrected and transformed into decimal degrees (datum WGS84).	Decimal degree	-52.33333333
	LATITUDE_Y	Latitude corrected and transformed into decimal degrees (datum WGS84).	Decimal degree	-22.5
	PRECISION	Coordinate precision of the sampling site. Precise: if the coordinate reported is from the exactly sampling area; Not precise: if the coordinate is from the municipality of the sampling area, or the coordinates provided by the paper mismatches with the sampling area.	Precise - Not precise	Precise
	UC	Information about the protection of the sampling area. Yes:	Yes - No	Yes

		if the area is a conservation unit or is within a conservation unit; No: If the area is not a conservation unit.		
	ANNUAL_TEMP	Annual temperature WorldClim v. 1.4., in Celsius degrees, available in http://www.worldclim.org/version1. Access on May 5th, 2017	16.2 – 27.5	25.1
	ANNUAL_RAIN	Annual rainfall WorldClim v. 1.4., in mm, available in http://www.worldclim.org/version1. Access on May 5th, 2017	607 - 2452	164
	ALTITUDE	Altitude in meters above sea level, from the Hydro-1K dataset (United States Geological Survey – USGS, 2001. HYDRO 1K: Elevation Derivative Database. Available from: <http://edc.usgs.gov/products/elevation/gtopo30/hydro/namerica.html>) on May 5th.	1 - 1826	469
	VEG_TYPE	Type of vegetation of the Atlantic Forest where the sampling area is located, provided by the reference paper.	Araucaria forest Araucaria forest – Mixed Ombrophilous forest Atlantic Forest Atlantic Forest - Semideciduous forest Deciduous Forest Dense Evergreen forest - Semideciduous transition Dense Ombrophilous forest	Semideciduous forest

			Dense Ombrophilous forest - Exotic and Native Plantations Lowland Evergreen forest Montane Dense Ombrophilous forest Montane forest Ombrophilous forest Open Ombrophilous forest Restinga Savanna Semideciduous forest Semideciduous forest - Savanna transition Submontane Dense Ombrophilous forest	
	BUFFER_20KM	Indicates whether the record is within a buffer of 20km around the Atlantic Forest boundaries	inside the 20km polygon NA	inside the 20 km polygon
	OLSONECONAME	ECO_NAME column of the shapefile wwf_terr_ecos, available in WWF website.	Alto Parana Atlantic Forests Araucaria moist forests Atlantic Coast restingas Bahia coastal forests Bahia interior forests Caatinga Campos Rupestres montane savanna Cerrado Humid Chaco Pernambuco coastal forests	Alto Parana Atlantic Forests

			Pernambuco interior forests Serra do Mar coastal forests Southern Atlantic mangroves Tocantins/Pindare moist forests Uruguayan savanna Xingu-Tocantins-Araguaia moist forests	
	OLSONG200R	Olson bioregions (Olson et al, 2001), represented by G200_REGIO column of the shapefile wwf_terr_ecos	Atlantic Forests Cerrado Woodlands and Savannas	Atlantic Forests
	RIBEIROVEGTYPE	Type of vegetation sensu Ribeiro et al. (2009).	Areas das Formacoes Pioneiras Areas de Tensao Ecologica Estepe Floresta Estacional Decidual Floresta Estacional Semidecidual Floresta Ombrofila Aberta Floresta Ombrofila Densa Floresta Ombrofila Mista Refugio Ecologico Savana Savana Estepica	Floresta Estacional Semidecidual
	BSRS	Type of biogeographical sub-regions in the Atlantic Forest (BSRs) sensu Ribeiro et al (2009).	Bahia Brejos Nordestinos Diamantina	Florestas de Interior

			Florestas de Araucaria Florestas de Interior Pernambuco Serra do Mar	
	METHOD	Sampling method described in the reference paper.	Interview Line transect Museum Playback Survey Visualization	Line transect
	COL_STRT_MO	Month when data collection started	January - December	May
	COL_STRT_YR	Year when data collection started.	1815 - 2016	1996
	COL_END_MO	Month when data collection ended.	January - December	December
	COL_END_YR	Year when data collection ended.	1986 - 2017	1996
	LTR_EFF	Effort in kilometers walked on transects in the sampling area.	1.6 – 618	618
	LTR_ABD_10KM	Line transect abundance. Calculated as the number of individuals/10km.	0.04 – 19.61	0.32
	LTR_DENS_KM2	Line transect density. Calculated as the number of individuals/km².	0.1 – 264	0.28
	LTR_DENS_HA	Line transect density. Calculated as the number of individuals/hectare.	0.07 – 7.1	7.1
	SURV_EFF	Survey effort in the sampling area. Measured in hours or kilometers walked.	8.8h – 24.3h 0.2512km – 3.3912km	24.1h
	SURV_ABD	Survey abundance. Calculated as the number of individuals/10km.	0.28 – 22.5	12.8
	SURV_DENS	Survey density. Calculated as the number of individuals/km² or	0.0038 – 400 1.97 groups/km – 12 groups/km	6.79

		the number of groups/km.		

982 **Table 4. Community information.** Description of the fields related to data of primate
983 communities.

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Type of information	Field	Description	Levels	Example
COMMUNITY INFORMATION	REF_ID	Reference identification that links the references to a specific record in the dataset.	REF0001 – REF0894, and unpublished data	REF0011
	ORDEMBD	Identification code of each species record. Each code is exclusive and represents the record in the sampling area. Records made in the same area in different studies received different codes.	Agostini_etal_2 - Agostini_etal_20 Almeida_AS_2_1 - Almeida_AS_2_31 Almeida_AS_plan_1_7 - Almeida_AS_plan_1_233 AraujoR_1 - AraujoR_59 Beltrao-MendesR_etal_1 – Beltrao-MendesR_etal_41 BrocardoC_1 - BrocardoC_23 CamilaC_1 - CamilaC_20 CanaleG_etal_1 - CanaleG_etal_198 CarvalhoM_etal_9 - CarvalhoM_etal_15 CheremJ_4 - CheremJ_80 ChristineS_etal_1 - ChristineS_etal_9 CPB_45 – CPB_55	LaurenceC_126

			EduardoC_FernandoP_1 - EduardoC_FernandoP_82 FerreiraA_1 - FerreiraA_21 FlorestaC_1 - FlorestaC_620 IzarP_1 – IzarP_87 KnoggeC_4 - KnoggeC_32 LaurenceC_1 - LaurenceC_830 LimaF_etal_14 - LimaF_etal_136 Mendes-Pontes_A_1 - Mendes-Pontes_A_35 MoraesA_plan_2_6 - MoraesA_plan_2_22 New_Refs_1 – New_Refs_56 PagliaA_1 - PagliaA_38 RenatoH_1 - RenatoH_44 RezendeG_GarbinoG_29 - RezendeG_GarbinoG_32 RochaA_1 - RochaA_31 Sabino-SantosG_La_Serra_1 - Sabino-SantosG_La_Serra_3	

			SetzE_etal_1 - SetzE_etal_37 SmithR_11 – SmithR_16 Souza-AlvesC_1 – Souza-AlvesC_3 ZagoL_1 - ZagoL_49	
	STUDY_AIM	Information about the objective of the study. COMM: the objective of the study was to inventory the entire primate community in a given area; ABD-COMM: the objective of the study was to inventory the entire primate community in a given area, in addition to obtaining quantitative population data of each species.	COMM ABD-COMM	ABD-COMM
	SPECIES	Species name in that sampling area.		*Leontopithecus rosalia*
	SP_ORIGIN	Information about the origin of that species in that sampling area. Autochtone: if the species is native to that sampling area. Allochtone: if the species is introduced or exotic in that sampling area. Hybrid: If individuals are the result of hybridization between species in the sampling area.	Autochtone Allochtone Hybrid	Autochtone
	SITE	Name of the sampling area provided by the reference paper.		Reserva Biologica de Poco das Antas

	AREA_HA	Area of the sampling site in hectares provided by the reference paper.	2 - 150700	3215
	MUNICIPALITY	Municipality of the sampling site.		SILVA JARDIM
	STATE	State or province of the sampling site.	16 states/provinces	RIO DE JANEIRO
	COUNTRY	Country of the sampling site.	Argentina Brazil Paraguay	Brazil
	LONGITUDE_X	Longitude corrected and transformed into decimal degrees (datum WGS84).	Decimal degree	-42.28038889
	LATITUDE_Y	Latitude corrected and transformed into decimal degrees (datum WGS84).	Decimal degree	-22.53969444
	PRECISION	Coordinate precision of the sampling site. Precise: if the coordinate reported is from the exactly sampling area; Not precise: if the coordinate is from the municipality of the sampling area, or the coordinates provided by paper mismatches with the sampling area.	Precise Not precise	Precise
	UC	Information about the protection of the sampling area. Yes: if the area is a conservation unit or is within a conservation unit; No: If the area is not a conservation unit.	Yes No	Yes
	ANNUAL_TEMP	Annual temperature. WorldClim v. 1.4., in Celsius degrees,	11.5 – 27.5	25.7

		available in http://www.worldclim.org/version1. Access on May 5th, 2017		
	ANNUAL_RAIN	Annual rainfall. WorldClim v. 1.4., in mm, available in http://www.worldclim.org/version1. Access on May 5th, 2017	498 - 2627	151
	ALTITUDE	Altitude in meters above sea level, from the Hydro-1K dataset (United States Geological Survey – USGS, 2001. HYDRO 1K: Elevation Derivative Database. Available from: <http://edc.usgs.gov/products/elevation/gtopo30/hydro/namerica.html>) on May 5th.	1 - 2534	63
	VEG_TYPE	Type of vegetation of the Atlantic Forest where the sampling area is located, provided by the reference paper.	Araucaria forest Araucaria forest; Deciduous Araucaria forest; Grasslands Araucaria forest; Grasslands; Semideciduous Araucaria forest; Mangrove; Restinga Araucaria forest; Mixed Ombrophilous forest Araucaria forest; Semideciduous Atlantic Forest Cacao Agroforest	Dense Ombrophilous forest

			Cerradão; Semideciduous Deciduous forest Dense Evergreen forest - Semideciduous transition Dense Ombrophilous forest Dense Ombrophilous forest; Mixed Ombrophilous forest Eucaliptus forest Lowland Evergreen forest Mangrove; Restinga Mixed Ombrophilous forest Montane and Submontane Dense Ombrophilous forest Montane Dense Ombrophilous forest Montane forest Ombrophilous forest Ombrophilous forest; Semideciduous forest Open Ombrophilous forest	

			Open Ombrophilous forest; Dense Ombrophilous forest Pine forest Restinga Sand forest Semideciduous, Aluvial forest Semideciduous forest Semideciduous forest; Mangrove Semideciduous forest; Mixed Ombrophilous forest Semideciduous forest; Restinga Submontane Dense Ombrophilous forest Tropical Dry forest; Semideciduous Tropical Wet forest; Tabuleiro forest	
	BUFFER_20KM	Indicates whether the record is within a buffer of 20km around the Atlantic Forest boundaries	inside the 20km polygon NA	inside the 20 km polygon
	OLSONECONAME	ECO_NAME column of the shapefile wwf_terr_ecos, available in WWF website.	Alto Parana Atlantic Forests Araucaria moist forests Atlantic Coast restingas	Serra do Mar coastal forests

			Atlantic dry forests Bahia coastal forests Bahia interior forests Caatinga Caatinga Enclaves moist forests Campos Rupestres montane savanna Cerrado Pernambuco coastal forests Pernambuco interior forests Serra do Mar coastal forests Southern Atlantic mangroves Uruguayan savanna	
	OLSONG200R	Olson bioregions (Olson et al, 2001), represented by G200_REGIO column of the shapefile wwf_terr_ecos	Atlantic Dry Forests Atlantic Forests Cerrado Woodlands and Savannas	Atlantic Forests
	RIBEIROVEGTYPE	Type of vegetation sensu Ribeiro et al. (2009).	Areas das Formacoes Pioneiras Areas de Tensao Ecologica Estepe Floresta Estacional Decidual Floresta Estacional Semidecidual	Floresta Ombrofila Densa

			Floresta Ombrofila Aberta Floresta Ombrofila Densa Floresta Ombrofila Mista Refugio Ecologico Savana Savana Estepica Agua	
	BSRS	Type of biogeographical sub-regions in the Atlantic Forest (BSRs) sensu Ribeiro et al (2009).	Bahia Brejos Nordestinos Diamantina Florestas de Araucaria Florestas de Interior Pernambuco Sao Francisco Serra do Mar	Serra do Mar
	METHOD	Sampling method described in the reference paper to sample primates.	Camera trap Interview Line transect Line transect and Camera trap Line transect and Interview Playback Playback and Visualization Survey Survey and Camera trap	Line transect

			Survey and Interview Survey and Playback Visualization Vocalization	
	COL_STRT_MO	Month when data collection started.	January - December	December
	COL_STRT_YR	Year when data collection started.	1985 - 2017	2003
	COL_END_MO	Month when data collection ended.	January - December	January
	COL_END_YR	Year when data collection ended.	1983 - 2017	2005
	LTR_EFF	Effort, in kilometers walked on transects in the sampling area.	0.8 - 618	194.8
	CAM_EFF	Camera trap effort, measured in days.	112 trap*day	112trap*day
	SURV_EFF	Survey effort spent in the sampling area. Measured in days or hours.	1 day – 15 days 720 hours	3 days

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Table 5. Occurrence information. Description of the fields related to data of primate occurrences.

Type of information	Field	Description	Levels	Example
OCCURRENCE INFORMATION	REF_ID	Reference identification that links the reference to a specific record in the dataset.	REF0011 – REF0886, and unpublished data	REF0019
	ORDEMBD	Identification code of each species record. Each code is exclusive and represents the record in the sampling area. Records made in the same area in different studies received different codes.	Agostini_etal_5 - Agostini_etal_68 Almeida_AS_plan_1_1 - Almeida_AS_plan_1_241 AlmeidaM_etal_1 - AlmeidaM_etal_698 BagerA_1 – BagerA_148 Bicca-Marques_JC_1 - Bicca-Marques_JC_39 BragaC-GoncalvesP_1 – BragaC-GoncalvesP_58 CampeloA_1 – CampeloA_13 CarvalhoM_etal_7 - CarvalhoM_etal_10 Cherem_Graipel_1 - Cherem_Graipel_106 CheremJ_1 - CheremJ_79 CPB_27 – CPB_87 daCunhaRGT_1 – daCunhaRGT_59 EduardoC_FernandoP_11 -	LaurenceC_156

			EduardoC_FernandoP_173 FerreiraA_22 GabrielaH_14 - GabrielaH_17 GestichC_1 – GestichC_16 HackR_1 – HackR_13 HirschA_1 - HirschA_4001 IzarP_1 – IzarP_98 KnoggeC_1 - KnoggeC_58 LaurenceC_149 - LaurenceC_827 LimaF_etal_1 - LimaF_etal_116 MarquesSantosP&GontijoNRG_2 – MarquesSantosP&GontijoNRG_24 MartinsA_MirandaF_3 – MartinsA_MirandaF_6 MoraesA_plan_1_2 - MoraesA_plan_1_17 MoraesA_plan_2_1 - MoraesA_plan_2_34 Nagy-ReisM_1 – Nagy-ReisM_72 OliveiraL_2 - OliveiraL_40 PagotoA_1 – PagotoA_30 PassamaniM_41 – PassamaniM_108	

			PlazaM_1 - PlazaM_1550 RezendeG_GarbinoG_1 - RezendeG_GarbinoG_34 RochaA_2 - RochaA_36 RUMO_1 – RUMO_289 Sabino-SantosG_La_Serra_4 - Sabino-SantosG_La_Serra_29 SilvaL_1 - SilvaL_35 SmithR_1 – SmithR_35 Souza-AlvesC_4 – Souza-AlvesC_5 SouzaR_1 - SouzaR_66 Srbek-AraujoAC_etal_1 – Srbek-AraujoAC_etal_89	
	STUDY_AIM	Information about the objective of the study. OCCUR: the objective of the study was to confirm the presence of a primate species in the sampling area, but not the entire community.	OCCUR	OCCUR
	SPECIES	Species name in that sampling area.		*Alouatta belzebul*
	SP_ORIGIN	Information about the origin of that species in that sampling area. Autochtone: if the species is native to that sampling area.	Autochtone Allochtone Hybrid	Autochtone

		Allochtone: if the species is introduced or exotic in that sampling area. Hybrid: If individuals are the result of hybridization between species in the sampling area.		
	POP_STATUS	Information about the conservation status of the populations. Extinct: the population is extinct; Probably extinct: the population is probably extinct, but a confirmation is necessary.	Extinct Probably extinct	Extinct
	SITE	Name of the sampling area provided by the reference paper.		Cajarana-Aguas Claras
	AREA_HA	Area of the sampling site in hectares provided by the reference paper.	0.4 - 150373	40
	MUNICIPALITY	Municipality of the sampling site.		RIO TINTO
	STATE	State or province of the sampling site.	28 states/provinces	PARAIBA
	COUNTRY	Country of the sampling site.	Argentina Bolivia Brazil Paraguay	Brazil
	LONGITUDE_X	Longitude corrected and transformed into decimal degrees (datum WGS84).	Decimal degree	-35.08458333
	LATITUDE_Y	Latitude corrected and transformed into decimal degrees (datum WGS84).	Decimal degree	-6.646611111
	PRECISION	Coordinate precision of the sampling site. Precise: if the	Precise Not precise	Precise

		coordinate reported is from the exactly sampling area; Not precise: if the coordinate is from the municipality of the sampling area, or the coordinates provided by the paper mismatches with the sampling areas.		
	UC	Information about the protection of the sampling area. Yes: if the area is a conservation unit or is within a conservation unit; No: If the area is not a conservation unit.	Yes No	No
	ANNUAL_TEMP	Annual temperature. WorldClim v. 1.4., in Celsius degrees, available in http://www.worldclim.org/version1. Access on May 5th, 2017.	12.2 – 29.3	26.6
	ANNUAL_RAIN	Mean monthly rainfall. WorldClim v. 1.4., in mm, available in http://www.worldclim.org/version1. Access on May 5th, 2017.	472 – 3233	77
	ALTITUDE	Altitude in meters above sea level, from the Hydro-1K dataset (United States Geological Survey – USGS, 2001. HYDRO 1K: Elevation Derivative Database. Available from: <http://edc.usgs.gov/products/elevation/gtopo30/hydro/namerica.html>) on May 5th.	1 - 2534	62
	VEG_TYPE	Type of vegetation of the Atlantic	Araucaria forest	Ombrophilous forest

		Forest where the sampling area is located, provided by the reference paper.	Araucaria forest; Grasslands Araucaria forest; Mangrove; Restinga Araucaria forest; Mixed Ombrophilous forest Araucaria forest; Semideciduous Atlantic Forest Atlantic Forest – Grassland transistion Atlantic Forest – Ombrophilous Forest Atlantic Forest; Rubber Agroforest Atlantic Forest – Semideciduous Forest Caatinga Cabruca forest Cabruca forest; Ombrophilous forest Deciduous forest Dense Ombrophilous forest Dense Ombrophilous forest; Restinga Eucaliptus Forest Exotic and Native Plantations Flooded savanna Forest Grasslands Livestock	

			Mangrove Mangrove; Restinga Mixed Ombrophilous forest Mixed ombrophilous forest – Dense ombrophilous forest transition Mixed ombrophilous forest – Semideciduous forest transition Montane Dense Ombrophilous forest Montane forest Montane Mixed Ombrophilous forest Ombrophilous forest Ombrophilous forest; Semideciduous forest Pine forest Restinga Riparian forest Savanna Semideciduous forest Semideciduous forest; Savanna transition Semideciduous forest; Palmital Urban forest Patches	
	BUFFER_20KM	Indicates whether the record is within a buffer of 20km around the Atlantic Forest boundaries	inside the 20km polygon NA	inside the 20 km polygon
	OLSONECONAME	ECO_NAME column of the shapefile	Alto Parana Atlantic Forests	Pernambuco interior forests

		wwf_terr_ecos, available in WWF website.	Amazon-Orinoco-Southern Caribbean mangroves Araucaria moist forests Atlantic Coast restingas Atlantic dry forests Bahia coastal forests Bahia interior forests Beni savanna Caatinga Campos Rupestres montane savanna Cerrado Chiquitano dry forests Dry Chaco Guianan piedmont and lowland moist forests Humid Chaco Madeira-Tapajos moist forests Marajo várzea Maranhao Babacu forests Mato Grosso seasonal forests Northeastern Brazil restingas Pantanal Parana flooded savanna	

			Pernambuco coastal forests Pernambuco interior forests Serra do Mar coastal forests Southern Atlantic mangroves Southern Cone Mesopotamian savanna Tapajos-Xingu moist forests Tocantins/Pindare moist forests Uatuma-Trombetas moist forests Uruguayan savanna Xingu-Tocantins-Araguaia moist forests	
	OLSONG200R	Olson bioregions (Olson et al, 2001), represented by G200_REGIO column of the shapefile wwf_terr_ecos	Amazon River and Flooded Forests Amazon-Orinoco-Southern Caribbean mangroves Atlantic Dry Forests Atlantic Forests Cerrado Woodlands and Savannas Chiquitano Dry Forests Guianan Highlands Moist Forests Pantanal Flooded Savannas Southwestern Amazonian Moist Forests	Atlantic Forests

	RIBEIROVEGTYPE	Type of vegetation sensu Ribeiro et al. (2009).	Areas das Formacoes Pioneiras Areas de Tensao Ecologica Estepe Floresta Estacional Decidual Floresta Estacional Semidecidual Floresta Ombrofila Aberta Floresta Ombrofila Densa Floresta Ombrofila Mista Refugio Ecologico Savana Savana Estepica Agua	Floresta Estacional Semidecidual
	BSRS	Type of biogeographical sub-regions in the Atlantic Forest (BSRs) sensu Ribeiro et al (2009).	Bahia Brejos Nordestinos Diamantina Florestas de Araucaria Florestas de Interior Pernambuco Sao Francisco Serra do Mar	Pernambuco
	METHOD	Sampling method described in the reference paper used to sample primates.	Camera trap Camera trap and Visualization Interview Interview and Camera trap	Survey and Interview

			Interview and Survey Interview and Vocalization Interview, Survey and Playback Interview, Vocalization and Visualization Line transect Museum Playback Playback and Interview Playback and Visualization Rail kill Road kill Survey Survey and Camera trap Survey and Interview Survey and Playback Visualization Vocalization	
	INST_NAME	Name of the institution (museum or university) where the specimen was deposited.	AMNH BMNH CPRJ CUBM FMNH FZBRS KUNHM MACN	UnB

			MADJ MBL MCAGH MCN MCZ MFRJ MHNCI MHNL MHNV MNHN MNRJ MPEG MSCJ MZB MZUSP PUC-RS UFPB UFRN UFSC UFV UnB USNM	
	COL_STRT_MO	Month when the data collection started.	January – December	May
	COL_STRT_YR	Year when the data collection started.	1815 - 2017	2006
	COL_END_MO	Month when the data collection ended.	January – December	April
	COL_END_YR	Year when the data collection ended.	1901 – 2017	2009

	LTR_EFF	Effort, in kilometers walked on transects in the sampling area.	1 – 98.2	12
	CAM_EFF	Camera trap effort, measured in days.	0 - 3749	2915
	SURV_EFF	Survey effort in the sampling area. Measured in hours, kilometers or number of playbacks.	1161h 2km – 8.3km 1playback – 6playbacks	2.1km

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