

Data Papers

Ecology, 100(1), 2019, e02525
© 2018 by the The Authors. *Ecology* © 2018 The Ecological Society of America

ATLANTIC-PRIMATES: a dataset of communities and occurrences of primates in the Atlantic Forests of South America

LAURENCE CULOT ¹, LUCAS AUGUSTO PEREIRA , ILARIA AGOSTINI , MARCO ANTÔNIO BARRETO DE ALMEIDA , RAFAEL SOUZA CRUZ ALVES , IZAR AXIMOFF , ALEX BAGER, MARÍA CELIA BALDOVINO, THIAGO RIBAS BELLA , JÚLIO CÉSAR BICCA-MARQUES , CARYNE BRAGA , CARLOS RODRIGO BROCARD, ANA KELLEN NOGUEIRA CAMPELO , GUSTAVO R. CANALE , JADER DA CRUZ CARDOSO, EDUARDO CARRANO , DIOGO CAVENAGUE CASANOVA , CAMILA RIGHETTO CASSANO , ERIKA CASTRO, JORGE JOSÉ CHEREM , ADRIANO GARCIA CHIARELLO , BRAZ ANTONIO PEREIRA COSENZA , RODRIGO COSTA-ARAÚJO, NILMARA CRISTINA DA SILVA , MARIO S. DI BITETTI , ALUANE SILVA FERREIRA , PRISCILA COUTINHO RIBAS FERREIRA , MARCOS DE S. FIALHO, LISIEUX FRANCO FUZESEY , GUILHERME SINICIATO TERRA GARBINO , FRANCINI DE OLIVEIRA GARCIA, CASSIANO A. F. R. GATTO , CARLA CRISTINA GESTICH , PABLO RODRIGUES GONÇALVES , NILA RÁSSIA COSTA GONTIJO, MAURÍCIO EDUARDO GRAIPEL , CARLOS EDUARDO GUIDORIZZI , ROSSANO ODELI ESPÍNDOLA HACK , GABRIELA PACHECO HASS , RENATO RICHARD HILÁRIO , ANDRÉ HIRSCH, INGRID HOLZMANN, DANIEL HENRIQUE HOMEM, HILTON ENTRINGER JÚNIOR, GILBERTO SABINO-SANTOS JÚNIOR, MARIA CECÍLIA MARTINS KIERULFF, CHRISTOPH KNOGGE, FERNANDO LIMA, ELSON FERNANDES DE LIMA, CRISTIANA SADDY MARTINS, ADRIANA ALMEIDA DE LIMA, ALEXANDRE MARTINS, WALDNEY PEREIRA MARTINS, FABIANO R. DE MELO, RICARDO MELZEW, JOÃO MARCELO DELIBERADOR MIRANDA, FLÁVIA MIRANDA, ANDRÉIA MAGRO MORAES, TAINAH CRUZ MOREIRA, MARIA SANTINA DE CASTRO MORINI, MARIANA B. NAGY-REIS, LUCIANA OKLANDER, LEONARDO DE CARVALHO OLIVEIRA, ADRIANO PEREIRA PAGLIA, ANDERSON PAGOTO, MARCELO PASSAMANI, FERNANDO DE CAMARGO PASSOS, CARLOS A. PERES, MICHELL SOARES DE CAMPOS PERINE, MÍRIAM PLAZA PINTO, ANTONIO ROSSANO MENDES PONTES, MARCIO PORT-CARVALHO, BÁRBARA HELIODORA SOARES DO PRADO, ANDRÉ LUIS REGOLIN, GABRIELA CABRAL REZENDE, ALESSANDRO ROCHA, JOEDISON DOS S. ROCHA, RAISA REIS DE PAULA RODARTE, LILIAN PATRÍCIA SALES, EDMILSON DOS SANTOS, PALOMA MARQUES SANTOS, CHRISTINE STEINER SÃO BERNARDO, RICARDO SARTORELLO, LEONARDO LA SERRA, ELEONORE SETZ, ANNE SOPHIE DE ALMEIDA E SILVA, LEONARDO HENRIQUE DA SILVA, PEDRO BENCKE ERMEL DA SILVA, MAURÍCIO SILVEIRA, REBECCA L. SMITH, SARA MACHADO DE SOUZA, ANA CAROLINA SRBEK-ARAÚJO, LEONARDO CARREIRA TREVELIN, CLAUDIO VALLADARES-PADUA, LUCIANA ZAGO, EDUARDO MARQUES, STEPHEN FRANCIS FERRARI, RAONE BELTRÃO-MENDES, DENISON JOSÉ HENZ, FRANCYS E. DA VEIGA DA COSTA, IGOR KINTOPP RIBEIRO, LUCAS LACERDA TOTTH QUINTILHAM, MARCOS DUMS, PRYSILLA MOURA LOMBARDI, RENATA TWARDOWSKY RAMALHO BONIKOWSKI, STÉFANI GABRIELI AGE, JOÃO PEDRO SOUZA-ALVES, RENATA CHAGAS, ROGÉRIO GRASSETTO TEIXEIRA DA CUNHA, MONICA MAFRA VALENÇA-MONTENEGRO, GABRIELA LUDWIG, LEANDRO JERUSALINSKY, GERSON BUSS, RENATA BOCORNY DE AZEVEDO, ROBERIO FREIRE FILHO, FELIPE BUFALO, LOUIS MILHE, MAYARA MULATO DOS SANTOS, RAÍSSA SEPULVIDA, DANIEL DA SILVA FERRAZ, MICHEL BARROS FARIA, MILTON CEZAR RIBEIRO, AND MAURO GALETTI

Citation: Culot, L., L. A. Pereira, I. Agostini, M. A. B. de Almeida, R. S. C. Alves, I. Aximoff, A. Bager, M. C. Baldovino, T. R. Bella, J. C. Bicca-Marques, C. Braga, C. R. Brocardo, A. K. N. Campelo, G. R. Canale, J. C. Cardoso, E. Carrano, D. C. Casanova, C. R. Cassano, E. Castro, J. J. Cherm, A. G. Chiarello, B. A. P. Cosenza, R. Costa-Araújo, N. C. da Silva, M. S. Di Bitetti, A. S. Ferreira, P. C. R. Ferreira, M. S. Fialho, L. F. Fuzessy, G. S. T. Garbino, F. O. Garcia, C. A. F. R. Gatto, C. C. Gestich, P. R. Gonçalves, N. R. C. Gontijo, M. E. Graipel, C. E. Guidorizzi, R. O. Espíndola Hack, G. P. Hass, R. R. Hilário, A. Hirsch, I. Holzmann, D. H. Homem, H. E. Júnior, G. S.-S. Júnior, M. C. M. Kierulff, C. Knogge, F. Lima, E. F. de Lima, C. S. Martins, A. A. de Lima, A. Martins, W. P. Martins, F. R. de Melo, R. Melzew, J. M. D. Miranda, F. Miranda, A. M. Moraes, T. C. Moreira, M. S. de Castro Morini, M. B. Nagy-Reis, L. Oklander, L. de Carvalho Oliveira, A. P. Paglia, A. Pagoto, M. Passamani, F. de Camargo Passos, C. A. Peres, M. S. de Campos Perine, M. P. Pinto, A. R. M. Pontes, M. Port-Carvalho, B. H. S. do Prado, A. L. Regolin, G. C. Rezende, A. Rocha, J. S. Rocha, R. R. de Paula Rodarte, L. P. Sales, E. dos Santos, P. M. Santos, C. S. S. Bernardo, R. Sartorello, L. L. Serra, E. Setz, A. S. de Almeida e Silva, L. H. da Silva, P. B. E. da Silva, M. Silveira, R. L. Smith, S. M. de Souza, A. C. SrbeK-Araujo, L. C. Trevelin, C. Valladares-Padua, L. Zago, E. Marques, S. F. Ferrari, R. Beltrão-Mendes, D. J. Henz, F. E. da Veiga da Costa, I. K. Ribeiro, L. L. T. Quintilham, M. Dums, P. M. Lombardi, R. T. R. Bonikowski, S. G. Age, J. P. Souza-Alves, R. Chagas, R. G. T. da Cunha, M. M. Valença-Montenegro, G. Ludwig, L. Jerusalinsky, G. Buss, R. B. de Azevedo, R. F. Filho, F. Bufalo, L. Milhe, M. M. dos Santos, R. Sepulvida,

D. S. Ferraz, M. B. Faria, M. C. Ribeiro, and M. Galetti. 2019. ATLANTIC-PRIMATES: a dataset of communities and occurrences of primates in the Atlantic Forests of South America. *Ecology* 100(1):e02525. 10.1002/ecy.2525

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. There are no copyright 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.

Key words: *Atelidae*; *biodiversity hotspot*; *Callitrichidae*; *Cebidae*; *defaunation*; *forest fragmentation*; *macroecology*; *Pitheciidae*.

The complete data sets corresponding to abstracts published in the Data Papers section in the journal are published electronically as Supporting Information in the online version of this article at <http://onlinelibrary.wiley.com/doi/10.1002/ecy.2525/supinfo>.