

DR. CLARISSA ALVES DA ROSA (Orcid ID : 0000-0001-7462-1991)

DR. BRUNO R RIBEIRO (Orcid ID : 0000-0002-7755-6715)

MISS VANESA FABIOLA BEJARANO ALEGRE (Orcid ID : 0000-0002-3899-291X)

MR. FERNANDO HENRIQUE PUERTAS (Orcid ID : 00

Article type : Data Papers

NEOTROPICAL ALIEN MAMMALS: a data set of occurrence and abundance of alien mammals in the Neotropics

Clarissa Alves da Rosa†, Bruno R. Ribeiro, Vanesa Bejarano, Fernando Henrique Puertas, Adriana Bocchiglieri, Adriana Loeser dos Santos Barbosa, Adriano Garcia Chiarello, Adriano Pereira Paglia, Adriele Aparecida Pereira, Adryelle Francisca de Souza Moreira, Agnis Cristiane de Souza, Aiesca Pellegrin, Ailin Gatica, Akyllan Zoppi Medeiro, Alan Deivid Pereira, Alan Gerhardt Braz, Alberto Yanosky, Alejandro Eduardo Jorge Valenzuela, Alessandra Bertassoni, Alessandra dos Santos Venturini do Prado, Alessandra Ferreira Dales Nava, Alessandro Rocha, Alex Augusto Abreu Bovo, Alex Bager, Alexandra Cravino, Alexandra dos Santos Pires, Alexandre Camargo Martensen, Alexandre Filippini, Alexandre Reis Percequillo, Alexandre Vogliotti, Alexsander Zamorano Antunes, Aline Cristina Leite de Oliveira, Allan Jefferson da Silva de Oliveira, Allison Devlin, Almir de Paula, Aluane Silva Ferreira, Alvaro García-Olaechea, Amanda Subalusky, Amadeo Sánchez, Ana Carla Medeiros Morato de Aquino, Ana Carolina Srbek-Araujo, Amane Paldês Gonçalves, Ana Caroline L. Araújo, Ana Cecilia Gozzi, Ana Cecilia Ochoa, Ana Cristina Mendes de Oliveira, Ana Cristyna Reis Lacerda, Ana Karina Francisco, Ana Maria de Oliveira Paschoal, Ana Paula Nascimento Gomes, Ana Paula Potrich, Ana Priscila Medeiros Olímpio, Ana Rojas, Ana Yoko Ykeuti Meiga, Anah Tereza de Almeida Jácomo, Analice Maria Calaça, Anderson Feijó, Anderson Pagoto, André Borja Miranda, André Chein Alonso, André Felipe Barreto-Lima, Andre Lanna, André Luís Luza, André Restel Camilo, André Tavares, André Valle Nunes, Andreas Kindel, Andrés de Miguel, Andressa Gatti, Andrezza Bellotto Nobre, Anielise da Conceição Campêlo, Anna Carolina Figueiredo

This article has been accepted for publication and undergone full peer review but has not been through the copyediting, typesetting, pagination and proofreading process, which may lead to differences between this version and the [Version of Record](#). Please cite this article as [doi: 10.1002/ECY.3115](#)

This article is protected by copyright. All rights reserved

de Albuquerque, Antonio de la Torre, Antonio Mangione, Antonio Rossano Mendes Pontes, Arthur Soares Fernandes, Artur Luiz de Almeida Felicio, Atila Colombo Ferregueti, Arlei Marcili, Augusto João Piratelli, Ariel Guilherme Santos do Nascimento, Áureo Banhos dos Santos, Beatris Felipe Rosa, Beatriz Azevedo Cezila, Benoit de Thoisy, Bianca Ingberman, Bianca Köhler, Bianca Cruz Morais, Bibiana Gómez-Valencia, Bruna Bertagni de Camargo, Bruna M. Bezerra, Bruna Tamasauskas, Bruno A. T. Parahyba Campos, Bruno Busnello Kubiak, Bruno Henrique Saranholi, Bruno K. Nakagawa, Bruno Pereira Leles, Burton K Lim, Calebe Pereira Mendes, Camila Alvez Islas, Camila Aoki, Camila Cantagallo Devids, Camila Figueiredo, Camila Matias Goes de Abreu, Camila Raquel Silva Oliveira, Camila Righetto Cassano, Camile Lugarini, Carin Caputo, Carla Cristina Gestich, Carla Denise Tedesco, Carla Fabiane de Vera y Conde, Carla Grasiela Zanin Hegel, Carlos Benhur Kasper, Carlos de Angelo, Carlos E.V. Grelle, Carlos Eduardo Fragoso, Carlos Eduardo Lustosa Esbérard, Carlos Frederico Duarte Rocha, Carlos Eduardo Verona, Carlos Henrique Salvador, Carlos Leonardo Vieira, Carlos Roberto Abrahão, Carlos Rodrigo Brocardo, Carolline Zatta Fieker, Caryne Braga, Catalina Sánchez Lalinde, Cecília Bueno, Cássia Yumi Ikuta, Cecília Licarião Barreto Luna, Cesar Cestari, Christine Del Vechio Koike, Christoph Knogge, Christopher Brian Anderson, Cindy M. Hurtado, Cintia Ferreira Antunes de Oliveira, Cintia Tellaeché, Clarice Silva Cesário, Claudia Guimarães Costa, Claudia Zukeran Kanda, Sebastián Andrés Costa, Cristiana Simão Seixas, Cristiano Trapé Trinca, Cristina F. López-Fuerte, Cristina Jaques da Cunha, Cynthia Doutel Ribas, Cyntia Cavalcante Santos, Daiane Buscariol, Daiane Carreira, Daiane Chaves do Nascimento, Danianderson Rodrigues Carvalho, Daniel da Silva Ferraz, Daniel Galiano, Daniel Henrique Homem, Daniel Jesús-Espinosa, Daniela A. S. Bôlla, Daniele Janina Moreno, Danielle de Oliveira Moreira, Danielle Leal Ramos, Danilo Angelucci de Amorim, Darci Moraes Barros-Battesti, David Echeverri Lopez, Davi Castro Tavares, David M. Post, Dayvid Rodrigues Couto, Dennis Nogarolli Patrocínio, Diana Letícia Kruger Pacheco Carvalho, Diego Afonso Silva, Diego Córdoba, Diego Queirolo, Diego Varela, Dilmar Alberto Goncalves de Oliveira, Diogo Cavenague Casanova, Douglas de Matos Dias, Douglas Machado da Silva, Eder Barbier, Edgar Federico Rivadeneira, Eduardo Alexandrino, Eduardo Carrano, Eduardo Marques Santos, Eduardo Martins Venticinque, Edwin Hernández-Pérez, Egberto da Fonseca Casazza, Elizabeth P. Anderson, Elmary da Costa Fraga, Elson Fernandes de Lima, Elvira D'Bastiani, Emerson Monteiro Vieira, Emiliano Guijosa-Guadarrama, Enrique M. González, Erica

Vanessa Maggiorini, Erick Francisco Silva de Aguiar, Erik Daniel Martínez-Nambo, Érika Paula Castro, Erika de la Peña-Cuéllar, Ezequiel Pedó, Fabiana Cristina S. Alves de Melo, Fabiana Lopes Rocha, Fabiana Luques Fonseca, Fabiane Girardi, Fabiano Rodrigues de Melo, Fábio de Oliveira Roque, Fabíola Keesen Ferreira, Felipe Bortolotto Peters, Felipe Moreli Fantacini, Felipe Pedrosa, Felipe Pessoa da Silva, Felipe Vélez-García, Fernanda D. Abra, Fernanda Cavalcanti de Azevedo, Fernanda Guedes da Silva, Fernanda Maria Neri, Fernanda Zimmermann Teixeira, Fernando Antonio dos Santos Fernandez, Fernando Carvalho, Fernando de Camargo Passos, Fernando de Castro Jacinavicius, Fernando Ferreira, Fernando Ferreira de Pinho, Fernando Gonçalves, Fernando Ibanez Martins, Fernando Lima, Fernando M. Contreras-Moreno, Fernando Silvério Ribeiro, Fernando Tortato, Filipe M. Patel, Flavia Caruso, Flávia Pereira Tirelli, Flávio Henrique Guimarães Rodrigues, Flávio Kulaif Ubaid, Francesca Belem Lopes Palmeira, Francisco Grotta Neto, Francisco Homem Gabriel, Franco Leandro de Souza, Francys E. da Veiga da Costa, Gabriel Lima de Aguiar, Frederico Gemesio Lemos, Gabriel S. Magezi, Gabriel Ferreira Vianna Di Panigai, Gabriel Selbach Hofmann, Gabriela Heliodoro, Gabriela Rosa Graviola, Gabrielle Beca, Gabrielle Ribeiro de Andrade, Germán Jiménez Romero, Gabriela Teixeira Duarte, Geruza Leal Melo, Geverson Luiz Dierings, Gilberto Sabino-Santos Jr, Geovana Linhares de Oliveira, Gindomar Gomes Santana, Giordano Ciocheti, Gisele Lamberti Zanirato, Giselle Bastos Alves, Graziele Oliveira Batista, Greici Maia Behling, Guilherme Braga Ferreira, Guilherme Casoni da Rocha, Gisele Lessa, Guilherme Mourão, Gustavo A. Maras, Gustavo Alves da Costa Toledo, Gustavo Gonsioroski, Gustavo R. Canale, Karl-Ludwig Schuchmann, Harley Sebastião, Helena Alves do Prado, Helena de Godoy Bergallo, Helio Kinast Cruz Secco, Henrique Llacer Roig, Henrique Rajão, Henrique Santiago Alberto Carlos, Herbert de Oliveira B. Duarte, Hiago Ermenegildo, Hilda Fátima de Jesus Pena, Hilton Entringer Júnior, Hipólito Ferreira Paulino Neto, Hudson de Macedo Lemos, Hugo del Castillo, Hugo Fernandes-Ferreira, Hugo Ignacio Coitiño Banquero, Ignacio Roesler, Igor Kintopp Ribeiro, Igor Pfeifer Coelho, Ingrid M.S. Lima, Isabel Muniz Bechara, Isabel Salgueiro Lermen, Isac Mella Méndez, Gabriela Schuck, Isadora Beraldi Esperandio, Ita de Oliveria Silva, Italo Mourthe, Igor Oliveira, Itiberê Piaia Bernardi, Jacqueline R Miller, Jader Marinho-Filho, Jairo José Zocche, James Charles Russell, Jardel Brandão Seibert, Javier Hinojosa, Jean R. S. Vitule, Jeffrey J. Thompson, Jean Carlos Ramos Silva, Jéssica Abonízio Gouvea, Jean Pierre Santos, Jéssica Caroline de Faria Falcão, Jessica Castro-Prieto, Jéssica

Paloma Ferreira, Jimmy Pincheira-Ulbrich, Joana Zorzal Nodari, João Carlos Zecchini Gebin, João Gabriel Ribeiro Giovanelli, João M. D. Miranda, João Pedro Souza-Alves, João Rafael Gomes de Almeida e Marins, , Jociel Ferreira Costa, Jonas Sponchiado, Jonathas Linds de Souza, Jorge Alberto Gallo, Jorge José Cherem, José Luís Passos Cordeiro, José Maurício Barbanti Duarte, José Oliveira Dantas, José Roberto de Matos, José Salatiel Rodrigues Pires, Juan Andrés Martínez Lanfranco, Juan Camilo de la Cruz Godoy, Juan Carlos Rudolf, Juan Felipe Reátiga Parrish, Juan Francisco Tellarini, Juan L. Peña-Mondragón, Juan Pablo Arrabal, Juan Reppucci, Juan Ruiz-Esparza, Julia Beduschi, Júlia Emi de Faria Oshima, Juliana Fernandes Ribeiro, Juliana Monteiro de Almeida Rocha, José Soares Ferreira Neto, Juliana Silveira dos Santos, Juliane Pereira-Ribeiro, Juliani Bruna Zanoni, Juliano André Bogoni, Juliana Rodrigues Ferreira, Júlio César Bicca-Marques, Julio Javier Chacón Pacheco, Pietro de Oliveira Scarascia, Karlo Gregório Guidoni-Martins, Kathrin Burs, Katia Maria Paschoaletto Micchi de Barros Ferraz, Kátia Regina Pisciotto, Katyucha Von Kossel de Andrade Silva, Keila MacFadem Juarez, Keynes de la Cruz-Félix, Kimberly Danielle Rodrigues de Moraes, Lana Pavão Candelária, Larissa Fornitano, Larissa Lynn Bailey, Larissa Oliveira Gonçalves, Laura Fasola, Laura Johanna Nova León, Layla Reis de Andrade, Leandro de Oliveira Marques, Leandro Macedo, Leandro Santana Moreira, Leandro Silveira, Leonardo de Carvalho Oliveira, Leonardo Henrique da Silva, Leandro Jerusalinsky, Leonardo La Serra, Leonardo Marques Costa, Leonardo Rodrigues Sartorello, Leticia Prado Munhoes, Liany Regina B. Oliveira-Silva, Ligia Ferracine de Pina, Lilian Bonjorne, Lilian Elaine Rampim, Lilian P. Sales, Lucas Gonçalves da Silva, Lucas Lacerda Toth Quintilham, Lucas Neves Perillo, Lucía Inés Rodríguez-Planes, Lucía Martín, Luciana Souza Araújo, Liliani Marilia Tiepolo, Luciana Zago S., Lina Marcela García Loaiza, Luciano Carramaschi de Alagão Querido, Luciano Ferreira da Silva, Luciano Francisco La Sala, Luciano Tessare Bopp, Ludmila Hufnagel, Luiz Flamarion Barbosa de Oliveira, Luiz Gustavo Rodrigues Oliveira-Santos, Luiz Henrique Lyra, Luiza Neves Guimarães, Luz Fernanda Jimenez Segura, Luziene Conceição de Sousa, Lydia Möcklinghoff, M. Laura Guichón, Javier de la Maza, M. Noelia Barrios-Garcia, Sônia A. Talamoni, Magnus Machado Severo, Maísa Ziviani Alves Martins, Marcela Alvares Oliveira, Marcela Figuerêdo Duarte Moraes, Marcela Guimarães Moreira Lima, Marcell Soares Pinheiro, Marcella do Carmo Ponzio, Marcello Guerreiro, Marcelo Cervini, Marcelo da Silva, Marcelo Juliano Rabelo Oliveira, Marcelo Magioli, Marcelo Passamani, Marcelo Silva de Almeida,

Accepted Article

Marcos Amaku, Márcio Leite de Oliveira, Marcos Adriano Tortato, Marcos Antônio Melo, Marcos E. Coutinho, Marcos Pérsio Dantas Santos, Marcus V. Vieira, Maria Augusta Andrade, Maria Claudene Barros, Maria Cristina Ferreira do Rosario, Maria Dolores Alves dos Santos Domit, Maria Emília de Avelar Fernandes, María Eugenia Iezzi, Maria Histele Sousa do Nascimento, María José Andrade-Núñez, Maria Lucia Lorini, Maria Santina de Castro Morini, Mariana B. Nagy-Reis, Mariana Bueno Landis, Mariana Moncassim Vale, Mariana Sampaio Xavier, Mariane C. Kaizer, Maria Piedad Baptiste, Mariano Maudet Bergel, Mariela Borgnia, Marília A. S. Barros, Marina Lima da Silva, Marina Ochoa Favarini, Marina Sales Munerato, Marina Trancoso Zaluvar, Marina Winter, Marina Xavier da Silva, Marina Zanin, Marinêz Isaac Marques, Mario Burke Haberfeld, Mario S. Di Bitetti, Maron Galliez, Martin R. Alvarez, Martina Malerba, Marina Rivero, Mateus Melo Dias, Mateus Yan de Oliveira, Matheus Gonçalves dos Reis, Matheus Rocha Jorge Corrêa, Maurício Eduardo Graipel, Mauricio N. Godoi, Maurício M. Núñez-Regueiro, Mauricio Osvaldo Moura, Mário Luís Orsi, Marco Aurélio Galvão da Silva, Mauro Sanvicente Lopez, Maximiliano Augusto Benedetti, Mayara Guimarães Beltrão, Micaela Camino, Michel Barros Faria, Michel Miretzki, Micheli Ribeiro Luiz, Michell Perine, Miguel Coutinho Moretta Monteiro, Milene Alves-Eigenheer, Miriam Lucia Lages Perilli, Mônica Andrade da Silva, Miguel Ângelo Marini, Monicque Silva Pereira, Mozart Caetano de Freitas Junior, Natalia Cossa, Natalia Mariana Denkiewicz, Natália Mundim Tôrres, Natalie Olifiers, Natasha Moraes de Albuquerque, Nathália Fernandes Canassa, Nathália Detogne, Newton Gurgel Filho, Nicolás Fernando Seoane, Nicole da Rosa Oliveira, Nicoli Megale, Nielson Pasqualotto, Nilton Carlos Cáceres, Nivaldo Peroni, Noeli Zanella, Olivier Pays, Omolabake Alhambra Silva Arimoro, Orlando Acevedo-Charry, Nelson Henrique de Almeida Curi, Patricia Ribeiro Salgado Pinha, Pablo Perovic, Pablo Rodrigues Gonçalves, Paloma Marques Santos, Pamella Gusmão de Goés Brennand, Patrícia Kerches Rogeri, Patrícia Rosas Ribeiro, Patrício Adriano da Rocha, Patrick Ricardo de Lázari, Paula Anabel Pedreira, Paula Fabiana Pinheiro, Paula Koeler Lira, Paula Modenesi Ferreira, Paula Sanches Martin, Paulo de Tarso Zuquim Antas, Paulo Henrique Marinho, Paulo Henrique Peira Ruffino, Paulo Henrique S. A. Camargo, Paulo Landgref Filho, Paulo Rogério Mangini, Patrick Farias, Pedro Cordeiro-Estrela, Pedro Henrique de Faria Peres, Pedro Manoel Galetti Jr., Pedro Ramírez-Bautista, Paula Cristina Rodrigues de Almeida Maués, Pierre-Cyril Renaud, Ricardo Sartorello, Pollyanna Alves de Barros, Priscilla Moura Lombardi, Rafael Bessa, Paulina Arroyo-

Geralda, Rafael Cerqueira Castro de Souza, Rafael D. Zenni, Rafael Flores Peredo, Rafael Hoogesteijn, Rafael Loyola, Rafael Souza Cruz Alves, Raisia Reis de Paula Rodarte, Ramon Lima Silva, Ramonna de Oliveira, Raone Beltrão-Mendes, Raony de Macêdo Alencar, Raquel Costa da Silva, Rayssa Pedroso, Rebeca Ferreira Sampaio, Renan Lieto Alves Ribeiro, Renata Pardini, Renata Twardowsky Ramalho Bonikowski, Renata Valls Pagotto, Ricardo Augusto Dias, Ricardo Bassini-Silva, Ricardo Corassa Arrais, Ricardo Sampaio, Rita de Cassia Bianchi, Roberta Montanheiro Paolino, Roberto Fusco-Costa, Roberto Guilherme Trovati, Robson Odeli Espíndola Hack, Rodiney de Arruda Mauro, Rodrigo de Almeida Nobre, Rodrigo Delmonte Gessulli, Rodrigo León Pérez, Rodrigo Lima Massara, Rodrigo Medina Fróes da Silva, Rogério Cunha de Paula, Rogério Grassetto Teixeira da Cunha, Rômulo Theodoro Costa, Rosane Vera Marques, Ronaldo Gonçalves Morato, Ricardo S. Bovendorp, Rubem Augusto da Paixão Dornas, Rubia Santana Andrade, Salvatore Siciliano, Samara Arsego Guaragni, Samir Gonçalves Rolim, Samuel Astete, Sandra Cavalcanti, Sandra Maria Hartz, Santiago Carvalho, Sara Cortez, Saulo Meneses Silvestre de Sousa, Sebastián A. Ballari, Saulo Ramos Lima, Sebastián Cirignoli, Sebastian García-R, Sérgio Bazilio, Sergio Solari Torres, Silvana Back Franco, Simone Rebouças Martins, Soledad de Bustos, Stefani Gabrieli Age, Stephen Francis Ferrari, Talitha Mayumi Francisco, Tatiane Micheletti, Tayanna Medonça da Silva Godim, Thais Guimaraes Luiz, Thales Renato Ochotorena de Freitas, Thiago Ferreira Rodrigues, Ubiratan Piovezan, Umberto Cotrim Barcos, Valeria Castilho Onofrio, Valeria L. Martin-Albarracin, Valeria Towns, Valquíria Cabral Araújo, Vanessa Kanaan, Vanessa Salete Daga, Vanner Boere, Verônica Parente Gomes de Araujo, Verónica Victoria Benitez, Victor Leandro-Silva, Vilma Clarice Geraldi, Vinicius Alberici, Vinícius Augusto Galvão Bastazini, Vinícius Peron de Oliveira Gasparotto, Vinícius Santana Orsini, Virgínia Santiago da Silva, Viviana Rojas Bonzi, Vinicius José Alves Pereira, Viviane Maria Guedes Layme, Victor Hugo Duarte da Silva, Walfrido Moraes Tomas, Thamy De Almeida Moreira, Waldney Pereira Martins, Walna Micaelle de Moraes Pires, Wellington Hannibal, Wesley Dáttilo, Viviane Mottin, Whaldener Endo, William Bercê, William Douglas Carvalho, William Magnusson, Paula Akkawi, Yamil Di Blanco, Paulo Roberto Amaral, Yan Gabriel Celli Ramos, Yenifer G. Rodríguez-Calderón, Yuri Raia Mendes, Yuri Geraldo Gomes Ribeiro, Zilca Campos, Mauro Galetti, Milton Cezar Ribeiro

Abstract

Biological invasion is one of the main threats to native biodiversity. For a species to become invasive it must be voluntarily or involuntarily introduced by humans into a non-native habitat. Mammals were among first taxa to be introduced worldwide for game, meat and labor, yet the number of species introduced in the Neotropics remains unknown. In this data set, we make available occurrence and abundance data on mammal species that (1) transposed a geographical barrier and (2) were voluntarily or involuntarily introduced by humans into the Neotropics. Our data set is composed of 73,738 historical and current georeferenced records on alien mammal species of which around 96% correspond to occurrence data on 77 species belonging to eight orders and 26 families. Data cover 26 continental countries in the Neotropics, ranging from Mexico and its frontier regions (southern Florida and coastal-central Florida in southeast USA) to Argentina, Paraguay, Chile, and Uruguay, and the 13 countries of Caribbean islands. Our data set also includes neotropical species (e.g., *Callithrix* sp., *Myocastor coypus*, *Nasua nasua*) considered alien in particular areas of Neotropics. The most numerous species in terms of records are from *Bos* sp. (n = 37,782), *Sus scrofa* (n = 6,730), and *Canis familiaris* (n = 10,084); 17 species were represented by only one record (e.g. *Syncerus caffer*, *Cervus timorensis*, *Cervus unicolor*, *Canis latrans*). Primates have the highest number of species in the data set (n = 20 species), partly due to uncertainties regarding taxonomic identification of the genera *Callithrix*, which includes the species *C. aurita*, *C. flaviceps*, *C. geoffroyi*, *C. jacchus*, *C. kuhlii*, *C. penicillata*, and their hybrids. This unique data set will be a valuable source of information on invasion risk assessments, biodiversity redistribution and conservation-related research. There are no copyright restrictions. Please cite this data paper when use the data in publications. We also request that researchers and teachers inform us on how they are using the data.

Key words: Exotic species, invasive species, biological invasions, biodiversity hotspots, novel ecosystems, savanna, tropical forest.

The complete data set is available as Supporting Information at: [to be completed at proof stage].

Data Availability

Associated data is also available at GitHub: <https://doi.org/10.5281/zenodo.3757637>

Corresponding Editor: William Michener.

† E-mail: alvesrosa_c@hotmail.com