

NEOTROPICAL XENARTHTRANS: a data set of occurrence of xenarthran species in the Neotropics

PALOMA MARQUES SANTOS ¹, ADRIANA BOCCHIGLIERI , ADRIANO GARCIA CHIARELLO , ADRIANO PEREIRA PAGLIA , ADRYELLE MOREIRA , AGNIS CRISTIANE DE SOUZA , AGUSTIN MANUEL ABBA, AGUSTIN PAVIOLO , AILIN GÁTICA , AKYLLAN ZOPPI MEDEIRO, ALAN NILO COSTA , ALBERTO GONZALEZ GALLINA, ALBERTO A. YANOSKY , ALEJANDRO JESUS , ALESSANDRA BERTASSONI , ALESSANDRO ROCHA , ALEX AUGUSTO ABREU BOVO , ALEX BAGER , ALEXANDRA CRAVINO MOL , ALEXANDRE CAMARGO MARTENSEN , ALEXANDRE CASAGRANDE FAUSTINO , ALEXANDRE MARTINS COSTA LOPES , ALEXANDRE REIS PERCEQUILLO , ALEXANDRE VOGLIOTTI , ALEXINE KEUROGHILIAN , MARÍA ALICIA DE LA COLINA , ALLISON L. DEVLIN , ALVARO GARCÍA-OLAECHEA , AMADEO SÁNCHEZ, ANA CAROLINA SRBEK-ARAUJO , ANA CECILIA OCHOA, ANA CRISTINA MENDES OLIVEIRA , ANA CRISTYNA REIS LACERDA , ANA KELLEN NOGUEIRA CAMPELO , ANA MARIA DE OLIVEIRA PASCHOAL , ANA RAÍSSA CUNHA COSTA , ANA YOKO YKEUTI MEIGA , ANAMÉLIA SOUZA JESUS , ANDERSON FEIJÓ, ANDRÉ HIRSCH , ANDRÉ LUIZ FERREIRA DA SILVA, ANDRÉ LUIS MOURA BOTELHO , ANDRÉ LUIS REGOLIN , ANDRÉ MONNERAT LANNA , ANDRÉ VALLE NUNES , ANDREAS KINDEL , ANDREIA MAGRO MORAES , ANDRESSA GATTI , ANDREW J. NOSS , ANDREZZA BELLOTTO NOBRE , ANELISE MONTANARIN , ÂNGELA CAMILA DEFFACI, ANNA CAROLINA FIGUEIREDO DE ALBUQUERQUE , ANNE KAROLINE DE OLIVEIRA , ANTONIO MARCELO MANGIONE , ANTONIO ROSSANO MENDES PONTES , ARIANE TEIXEIRA BERTOLDI , ARMANDO MUNIZ CALOURO , ARNAUD L. J. DESBIEZ , ARTHUR FERNANDES , ATILLA COLOMBO FERREQUETTI , MARIA AUGUSTA ANDRADE DA SILVA , BARBARA ZIMBRES , BEATRIZ FERNANDES LIMA LUCIANO , BENOIT DE THOISY , BERNARDO BRANDÃO S. NIEBUHR , BERNARDO PAPI , BIBIANA GÓMEZ-VALENCIA , BRÁULIO A. SANTOS , BRENO CAMPELO LIMA , BRUNA GOMES OLIVEIRA , BRUNA SILVA SANTOS , BRUNO AUGUSTO TORRES PARAHYBA CAMPOS , BRUNO LELES , BRUNO RODRIGO DE ALBUQUERQUE FRANÇA , BURTON LIM , CAETANO TRONCOSO OLIVEIRA, CAMILA CANTAGALLO , CAMILA CLOZATO LARA , CAMILA SILVEIRA LIMA , CARLA CRISTINA GESTICH , CARLA DANIELLE DE MELO-SOARES , CARLOS A. PERES , CARLOS BENHUR KASPER , CARLOS CANDIA-GALLARDO, CARLOS DE ANGELO , CARLOS EDUARDO FRAGOSO , CARLOS HENRIQUE DE FREITAS , CARLOS HENRIQUE SALVADOR , CARLOS R. BROCARD, CAROLINA DEPOLITO MELO, CAROLINE LEUCHTENBERGER , CARYNE BRAGA , CATALINA SÁNCHEZ-LALINDE , CECÍLIA BUENO , CECÍLIA LICARIÃO LUNA , CESAR ROJANO , CINDY MELIZA HURTADO , CINTHYA CHIVA DOS SANTOS , CINTIA TELLAECHÉ, CLARISSA ROSA , CLAUDIA BUENO DE CAMPOS , CLÁUDIA REGINA SILVA, CLAUDIA ZUKERAN KANDA , CLINTON N. JENKINS , COLLEEN McDONOUGH, CRISTIANO TRAPÉ TRINCA , CRISTINA JAQUES DA CUNHA , CYNTHIA ELISA WIDMER , CYNTHIA SANTOS , DAIANE BUSCARIOL , DAIANE CRISTINA CARREIRA , DANIANDESON RODRIGUES CARVALHO, DANIEL DA SILVA FERRAZ , DANIEL CASALI , DANIEL THORNTON , DANIELA RODRIGUES VASCONCELOS, DANIELLE BARCELOS , DANIELLE BROWN , DANIELLA LEAL RAMOS, DANIELLE OLIVEIRA MOREIRA , DÉBORA REGINA YOGUI , DEBORAH FARIA, DENIS ALESSIO SANA, DENISE LIDORO DE MATTIA, DENISON JOSÉ HENZ , DIANA B FRIEDEBERG , DIANA LETÍCIA KRUGER PACHECO CARVALHO , DIEGO ASTÚA , DIEGO QUEIROLO , DIEGO M. VARELA , DONALD P. EATON , DOUGLAS MATOS DIAS , EDGAR FEDERICO RIVADENEIRA , EDNALDO CÂNDIDO ROCHA , EDSON FIEDLER DE ABREU-JÚNIOR , EDUARDO CARRANO , EDUARDO MARQUES SANTOS JR., ELEONORE ZULNARA FREIRE SETZ , ELILDO ALVES RIBEIRO CARVALHO JR. , ELISANDRA DE ALMEIDA CHIQUITO , ELIZANDRA DE MATOS CARDOSO , ELOISA NEVES MENDONÇA , ELVIRA D'BASTIANI, EMERSON M. VIEIRA , EMILIANO ESTERCI RAMALHO , EMILIANO GUIJOSA-GUADARRAMA , ENRIQUE GONZÁLEZ , ERICA VANESSA MAGGIORINI , ERICH FISCHER , ÉRICK FRANCISCO AGUIAR , ÉRIKA PAULA CASTRO , ERIKA DE LA PEÑA-CUÉLLAR , ERNESTO B. VIVEIROS DE CASTRO , EVELYN BEATRIZ BRÍTEZ, EZEQUIEL ANDRES VANDERHOEVEN , EZEQUIEL PEDÓ , FABIANA LOPES ROCHA , FABIANE GIRARDI , FABIO DE OLIVEIRA ROQUE , FÁBIO DIAS MAZIM, FABIO MONTEIRO DE BARROS, FELIPE MARTELLO, FELIPE MORELI FANTACINI , FELIPE PEDROSA , FELIPE BORTOLOTTO PETERS , FERNANDA DELBORGIO ABRA , FERNANDA CAVALCANTI DE AZEVEDO , FERNANDA DA SILVA SANTOS , FERNANDA GUEDES DA SILVA , FERNANDA ZIMMERMANN TEIXEIRA, FERNANDO ARAUJO PERINI , FERNANDO C. PASSOS , FERNANDO CARVALHO, FERNANDO CESAR CASCELLI DE AZEVEDO , FERNANDO FERREIRA DE PINHO , FERNANDO

GONÇALVES , FERNANDO LIMA , FERNANDO M. CONTRERAS-MORENO , FERNANDO PEDRONI , FERNANDO RODRIGO TORTATO , FILIPE PEREIRA REGO SANTOS , FLAVIA CARUSO, FLÁVIA PEREIRA TIRELLI , FLÁVIA REGINA MIRANDA, FLÁVIO HENRIQUE GUIMARÃES RODRIGUES, FLÁVIO KULAIF UBAID , FRANCESCA BELEM LOPES PALMEIRA , FRANCIANE ALMEIDA DA SILVA , FRANCISCO GROTTA-NETO , FRANCO LEANDRO DE SOUZA , FRANCYS EMANUELLE COSTA , FREDDY PÉREZ-GARDUZA, FRÉDÉRIC DELSUC , FREDERICO LEMOS , FREDY RAMIREZ PINTO, GABRIEL IVAN BOAGLIO, GABRIEL FÁVERO MASSOCATO , GABRIEL PREUSS , GABRIEL SELBACH HOFMANN , GABRIEL LIMA AGUIAR , GABRIELA SCHUCK OLIVEIRA , GABRIELA TEIXEIRA DUARTE , GABRIELLE BECA , GASTÓN ANDRÉS FERNANDEZ GINÉ , GRAZIELE OLIVEIRA BATISTA , GUILLERMO EDUARDO GIL, GUSTAVO GONSIOROSKI , HELIO SECCO , HUGO REIS MEDEIROS, IGOR PFEIFER COELHO , INGRID CAMBOIM FRANCESCHI , ITIBERÊ BERNARDI , J. 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Abstract. Xenarthrans—anteaters, sloths, and armadillos—have essential functions for ecosystem maintenance, such as insect control and nutrient cycling, playing key roles as ecosystem engineers. Because of habitat loss and fragmentation, hunting pressure, and conflicts with domestic dogs, these species have been threatened locally, regionally, or even across their full distribution ranges. The Neotropics harbor 21 species of armadillos, 10 anteaters, and 6 sloths. Our data set includes the families Chlamyphoridae (13), Dasypodidae (7), Myrmecophagidae (3), Bradypodidae (4), and Megalonychidae (2). We have no occurrence data on *Dasypus pilosus* (Dasypodidae). Regarding Cyclopedidae, until recently, only one species was recognized, but new genetic studies have revealed that the group is represented by seven species. In this data paper, we compiled a total of 42,528 records of 31 species, represented by occurrence and quantitative data, totaling 24,847 unique georeferenced records. The geographic range is from the southern United States, Mexico, and Caribbean countries at the northern portion of the Neotropics, to the austral distribution in Argentina, Paraguay, Chile, and Uruguay. Regarding anteaters, *Myrmecophaga tridactyla* has the most records ($n = 5,941$), and *Cyclopes* sp. have the fewest ($n = 240$). The armadillo species with the most data is *Dasypus novemcinctus* ($n = 11,588$), and the fewest data are recorded for *Calyptophractus retusus* ($n = 33$). With regard to sloth species, *Bradypus variegatus* has the most records ($n = 962$), and *Bradypus pygmaeus* has the fewest ($n = 12$). Our main objective with Neotropical Xenarthrans is to make occurrence and quantitative data available to facilitate more ecological research, particularly if we integrate the xenarthran data with other data sets of Neotropical Series that will become

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¹ E-mail: paloma.marquessa@yahoo.com.br

available very soon (i.e., Neotropical Carnivores, Neotropical Invasive Mammals, and Neotropical Hunters and Dogs). Therefore, studies on trophic cascades, hunting pressure, habitat loss, fragmentation effects, species invasion, and climate change effects will be possible with the Neotropical Xenarthrans data set. Please cite this data paper when using its data in publications. We also request that researchers and teachers inform us of how they are using these data.

Key words: biodiversity hotspot; cingulata; forest fragmentation; habitat loss; neotropical mammals; neotropical region; pilosa; xenarthra.

The complete data set is available as Supporting Information at: <https://onlinelibrary.wiley.com/doi/10.1002/ecy.2663/supinfo>.