



ATLANTIC AMPHIBIANS: um conjunto de dados de comunidades de anfíbios da Mata Atlântica

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ATLANTIC AMPHIBIANS



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ATLANTIC AMPHIBIANS: a data set of amphibian communities from the Atlantic Forests of South America

Maurício Humberto Vancine✉, Kauã da Silva Duarte, Yuri Silva de Souza, João Gabriel Ribeiro Giovanelli, Paulo Mateus Martins-Sobrinho, Ariel López, Rafael Parelli Bovo, Fábio Maffei, Marília Bruzzi Lion, José Wagner Ribeiro Júnior, Ricardo Brassaloti, Carolina Ortiz Rocha da Costa, Henrique Oliveira Sawakuchi, Lucas Rodriguez Forti, Pier Cacciali, Jaime Bertoluci, Célio Fernando Baptista Haddad, Milton Cezar Ribeiro, ... See fewer authors ^

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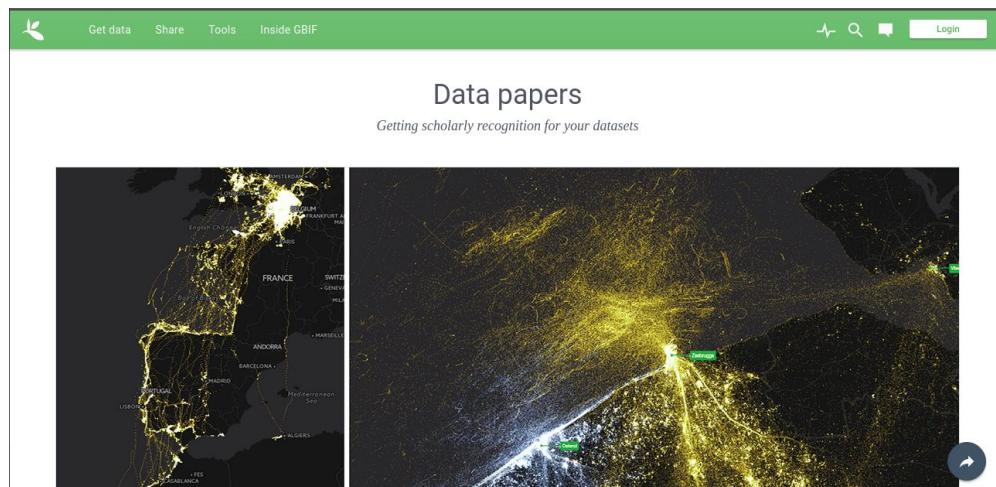
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Data Papers

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Abstract: Amphibians are among the most threatened vertebrates in the world and this is also true for those inhabiting the Atlantic Forest hotspot, living in ecosystems that are highly degraded and threatened by anthropogenic activities. We present a data set containing information about amphibian communities sampled throughout the Atlantic Forest Biome in South America. The data were extracted from 389 bibliographic references (articles, books, theses, and dissertations) representing inventories of amphibian communities from 1940 to 2017. The data set includes 17,619 records of 528 species with taxonomic certainty, from 1,163 study sites. Of all the records, 14,450 (82%) were classified using the criterion of endemism; of those, 7,787 (44%) were considered endemic and 6,663 (38%) were not. Historically, mist net sampling methods were used to survey amphibians, the most representative methods being active surveys (82.1%), surveys at breeding sites (20%), pitfall traps (15.3%), and occasional encounters (14.5%). Species richness averaged 15.2 ± 11.3 (mean \pm SD), ranging from 1 to 80 species per site. We found a low dominance in the communities, with 10 species occurring in about 26% of communities: *Physalaemus ephippifer* (4.1%), *Dendrophryniscus minutus* (3.8%), *Bufoau faber* (3.1%), *Semnodactylus fuscovarius* (2.8%), *Lepidoblepharis latius* (2.7%), *Lepidoblepharis fuscus* (2.6%), *Bufoau albopunctata* (2.3%), *Dendrophryniscus nanus* (1.6%), *Rhinella ornata* (1.6%), and *Leptodactylus mystacinus* (1.6%). This data set represents a major effort to compile inventories of amphibian communities for the Neotropical region, filling a large gap in the data on the Atlantic Forest hotspot. We hope this data set can be used as a credible tool in the proposal of new studies on amphibian sampling and even in the development of conservation planning for these taxa. This information also has great relevance for macroecological studies, being foundational for both conservation and restoration strategies in this biodiversity hotspot. No copyright or proprietary restrictions are associated with the use of this data set. Please cite this data paper when the data are used in publications or teaching events.

Key words: amphibian communities; fauna; Atlantic Forest Biome; biodiversity hotspot; caatinga; Neotropical region

The complete data set is available as Supporting Information at <https://doi.org/10.1002/ecy.2392/supinfo>. Data associated with this Data Paper are available from Zenodo: <http://doi.org/10.5281/zenodo.123688>

SUPPORTING INFORMATION

Additional supporting information may be found in the online version of this article at <http://onlinelibrary.wiley.com/doi/10.1002/ecy.2392/supinfo>

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Supporting Information

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Description

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1: Atlantic Forest Biome; *2*: biodiversity hotspot; *3*: cacticaria; *4*: Neotropical

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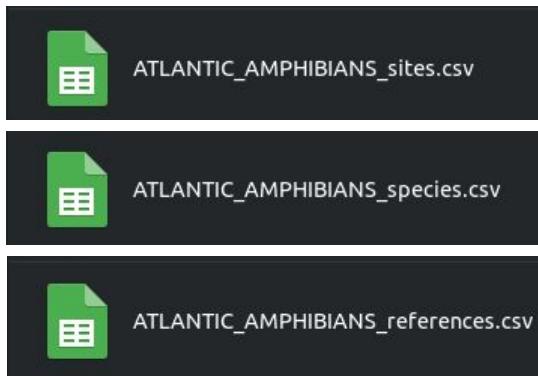
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68 | ampa1067,1006,42,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch FF,-6.32777778,-35.0975,NA,40,25,81,1470

69 | ampa1068,1006,43,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch GG,-6.32777778,-35.0975,NA,40,25,81,1470

70 | ampa1069,1006,44,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch HH,-6.32777778,-35.0975,NA,40,25,81,1470

71 | ampa1070,1006,45,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch II,-6.32777778,-35.0975,NA,40,25,81,1470

72 | ampa1071,1006,46,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch JJ,-6.32777778,-35.0975,NA,40,25,81,1470

73 | ampa1072,1006,47,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch KK,-6.32777778,-35.0975,NA,40,25,81,1470

74 | ampa1073,1006,48,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch LL,-6.32777778,-35.0975,NA,40,25,81,1470

75 | ampa1074,1006,49,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch MM,-6.32777778,-35.0975,NA,40,25,81,1470

76 | ampa1075,1006,50,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch NN,-6.32777778,-35.0975,NA,40,25,81,1470

77 | ampa1076,1006,51,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch OO,-6.32777778,-35.0975,NA,40,25,81,1470

78 | ampa1077,1006,52,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch PP,-6.32777778,-35.0975,NA,40,25,81,1470

79 | ampa1078,1006,53,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch QQ,-6.32777778,-35.0975,NA,40,25,81,1470

80 | ampa1079,1006,54,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch RR,-6.32777778,-35.0975,NA,40,25,81,1470

81 | ampa1080,1006,55,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch SS,-6.32777778,-35.0975,NA,40,25,81,1470

82 | ampa1081,1006,56,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch TT,-6.32777778,-35.0975,NA,40,25,81,1470

83 | ampa1082,1006,57,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch UU,-6.32777778,-35.0975,NA,40,25,81,1470

84 | ampa1083,1006,58,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch VV,-6.32777778,-35.0975,NA,40,25,81,1470

85 | ampa1084,1006,59,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch WW,-6.32777778,-35.0975,NA,40,25,81,1470

86 | ampa1085,1006,60,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch XX,-6.32777778,-35.0975,NA,40,25,81,1470

87 | ampa1086,1006,61,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch YY,-6.32777778,-35.0975,NA,40,25,81,1470

88 | ampa1087,1006,62,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch ZZ,-6.32777778,-35.0975,NA,40,25,81,1470

89 | ampa1088,1006,63,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch AA,-6.32777778,-35.0975,NA,40,25,81,1470

90 | ampa1089,1006,64,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch BB,-6.32777778,-35.0975,NA,40,25,81,1470

91 | ampa1090,1006,65,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch CC,-6.32777778,-35.0975,NA,40,25,81,1470

92 | ampa1091,1006,66,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch DD,-6.32777778,-35.0975,NA,40,25,81,1470

93 | ampa1092,1006,67,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch EE,-6.32777778,-35.0975,NA,40,25,81,1470

94 | ampa1093,1006,68,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch FF,-6.32777778,-35.0975,NA,40,25,81,1470

95 | ampa1094,1006,69,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch GG,-6.32777778,-35.0975,NA,40,25,81,1470

96 | ampa1095,1006,70,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch HH,-6.32777778,-35.0975,NA,40,25,81,1470

97 | ampa1096,1006,71,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch II,-6.32777778,-35.0975,NA,40,25,81,1470

98 | ampa1097,1006,72,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch JJ,-6.32777778,-35.0975,NA,40,25,81,1470

99 | ampa1098,1006,73,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch KK,-6.32777778,-35.0975,NA,40,25,81,1470

100 | ampa1099,1006,74,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch LL,-6.32777778,-35.0975,NA,40,25,81,1470

101 | ampa1100,1006,75,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch MM,-6.32777778,-35.0975,NA,40,25,81,1470

102 | ampa1101,1006,76,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch NN,-6.32777778,-35.0975,NA,40,25,81,1470

103 | ampa1102,1006,77,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch OO,-6.32777778,-35.0975,NA,40,25,81,1470

104 | ampa1103,1006,78,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch PP,-6.32777778,-35.0975,NA,40,25,81,1470

105 | ampa1104,1006,79,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch QQ,-6.32777778,-35.0975,NA,40,25,81,1470

106 | ampa1105,1006,80,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch RR,-6.32777778,-35.0975,NA,40,25,81,1470

107 | ampa1106,1006,81,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch SS,-6.32777778,-35.0975,NA,40,25,81,1470

108 | ampa1107,1006,82,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch TT,-6.32777778,-35.0975,NA,40,25,81,1470

109 | ampa1108,1006,83,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch UU,-6.32777778,-35.0975,NA,40,25,81,1470

110 | ampa1109,1006,84,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch VV,-6.32777778,-35.0975,NA,40,25,81,1470

111 | ampa1110,1006,85,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch WW,-6.32777778,-35.0975,NA,40,25,81,1470

112 | ampa1111,1006,86,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch XX,-6.32777778,-35.0975,NA,40,25,81,1470

113 | ampa1112,1006,87,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch YY,-6.32777778,-35.0975,NA,40,25,81,1470

114 | ampa1113,1006,88,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch ZZ,-6.32777778,-35.0975,NA,40,25,81,1470

115 | ampa1114,1006,89,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch AA,-6.32777778,-35.0975,NA,40,25,81,1470

116 | ampa1115,1006,90,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch BB,-6.32777778,-35.0975,NA,40,25,81,1470

117 | ampa1116,1006,91,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch CC,-6.32777778,-35.0975,NA,40,25,81,1470

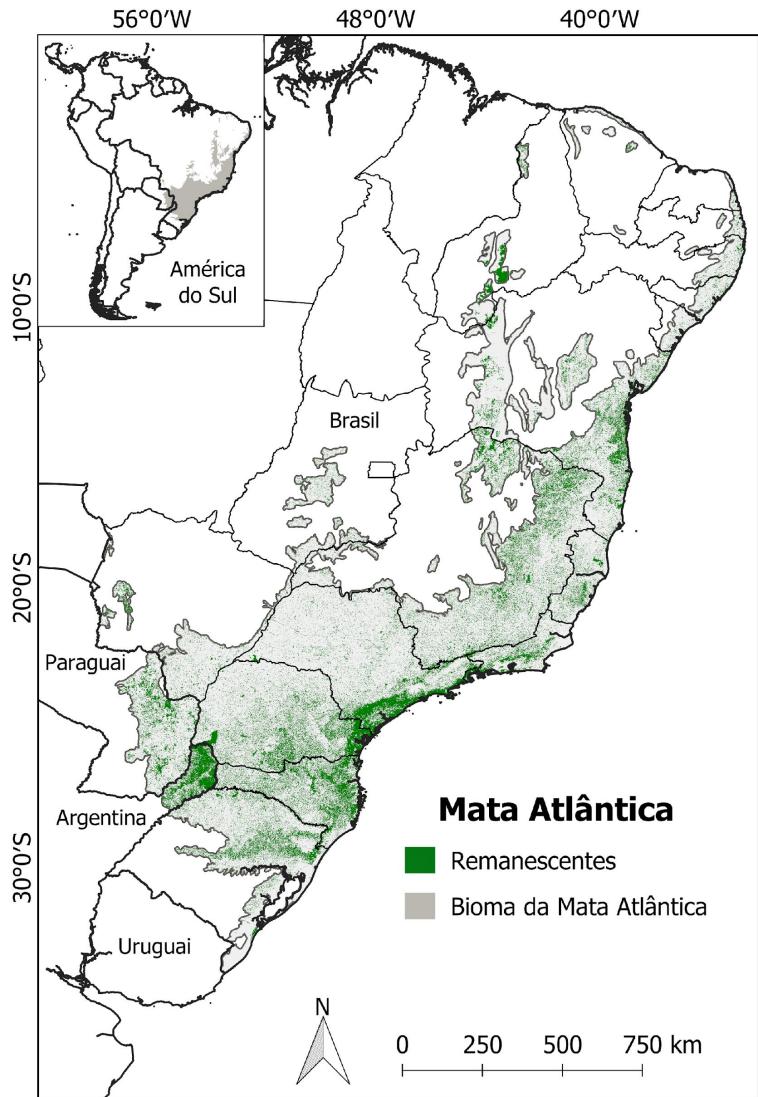
118 | ampa1117,1006,92,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch DD,-6.32777778,-35.0975,NA,40,25,81,1470

119 | ampa1118,1006,93,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch EE,-6.32777778,-35.0975,NA,40,25,81,1470

120 | ampa1119,1006,94,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch FF,-6.32777778,-35.0975,NA,40,25,81,1470

121 | ampa1120,1006,95,ab,na,NA,NA,5,2011,7,2011,2,Brazil,Rio Grande do Norte,BR,RN,Vila Flor,Patch GG,-6

Contextualização

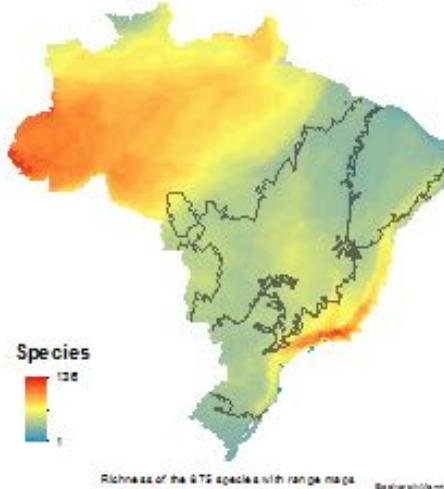


(Jenkins et al. 2015, Rossa-Feres et al. 2017, Ribeiro et al. in prep.)

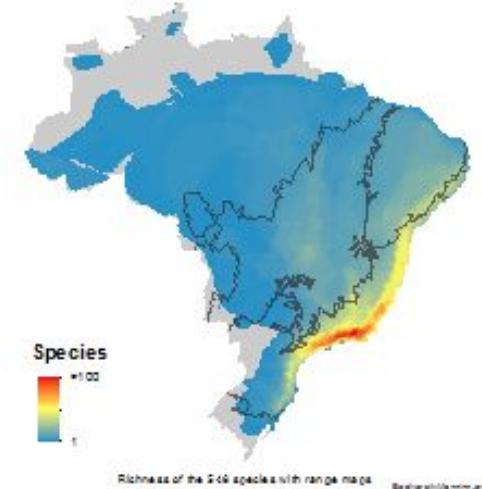
Anfíbios na Mata Atlântica



Amphibian Diversity



Amphibian Endemics



Objetivo

Compilar e descrever a distribuição, composição
e amostragem de comunidades de anfíbios no
Bioma da Mata Atlântica

Métodos

Reunimos dados de **389 trabalhos**, sendo:

- 231 (60%) artigos
- 114 (29%) monografias de graduação,
dissertações e teses
- 44 (11%) livros



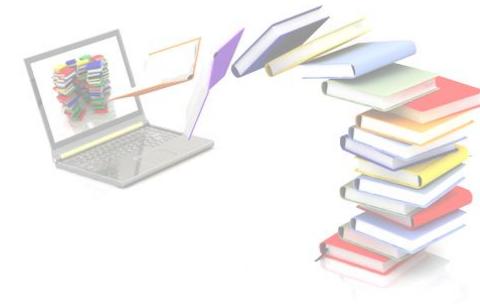
Coordenadas geográficas foram **corrigidas** utilizando o Google Earth

Taxonomia das espécies foi **atualizada e/ou corrigida** seguindo o Frost (2017)

Métodos

Reunimos dados de **389 trabalhos**, sendo:

- 231 (60%) artigos
- 114 (29%) monografias de graduação,
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Coordenadas geográficas foram **corrigidas** utilizando o Google Earth



Taxonomia das espécies foi **atualizada e/ou corrigida** seguindo o Frost (2017)

Métodos

Reunimos dados de **389 trabalhos**, sendo:

- 231 (60%) artigos
- 114 (29%) monografias de graduação,
dissertações e teses
- 44 (11%) livros



Coordenadas geográficas foram **corrigidas** utilizando o Google Earth

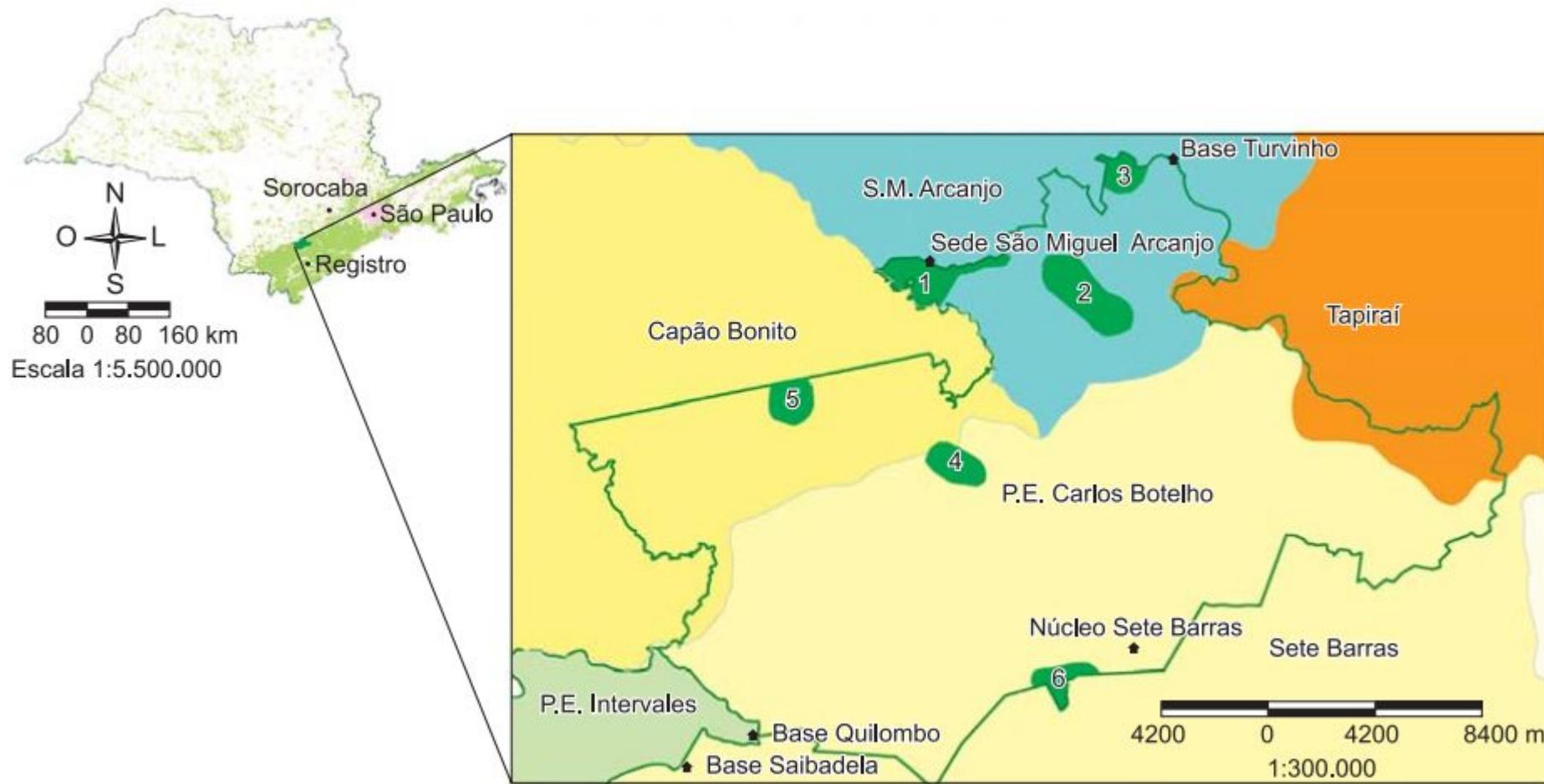


Taxonomia das espécies foi **atualizada e/ou corrigida** seguindo o Frost
(2017)

A screenshot of a computer screen displaying the "AMERICAN MUSEUM OF NATURAL HISTORY" website for "Amphibian Species of the World 6.0, an Online Reference". The page shows a search interface with fields for "Basic Search" and "Guided Search". Below the search fields is a list of taxonomic families, each with a count of species (e.g., "Family Arthroleptidae (140 sp.)", "Family Boophidae (102 sp.)", etc.). The status bar at the bottom indicates the date as "04/05/2018 10:59 am" and the page as "ASW home - Herpetology Site".

Métodos

Alto refinamento das informações das comunidades



Métodos

Informações compiladas dos trabalhos de inventários de comunidades:

1) habitat amostrado (e.g. floresta, lago, riche)



2) métodos de amostragem (e.g. busca visual, *pitfall*, encontro ocasional)

3) horário de amostragem (manhã, tarde, noite)

4) esforço amostral (mês e ano inicial e final)

5) lista de espécies (composição ou abundância)

6) endemismo (*sensu* Haddad et al. 2013)

7) localização geográfica (latitude, longitude, país, estado, município e local específico)

8) altitude, temperatura média anual e precipitação anual (WorldClim v. 2.0)

Métodos

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1) habitat amostrado (e.g. floresta, lago, riche)



2) métodos de amostragem (e.g. busca visual, *pitfall*, encontro ocasional)

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2) métodos de amostragem (e.g. busca visual, *pitfall*, encontro ocasional)



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1) habitat amostrado (e.g. floresta, lago, riche)



2) métodos de amostragem (e.g. busca visual, *pitfall*, encontro ocasional)



3) horário de amostragem (manhã, tarde, noite)



4) esforço amostral (mês e ano inicial e final)



5) lista de espécies (composição ou abundância)

6) endemismo (*sensu* Haddad et al. 2013)

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8) altitude, temperatura média anual e precipitação anual (WorldClim v. 2.0)

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8) altitude, temperatura média anual e precipitação anual (WorldClim v. 2.0)

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Informações compiladas dos trabalhos de inventários de comunidades:

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3) horário de amostragem (manhã, tarde, noite)



4) esforço amostral (mês e ano inicial e final)



5) lista de espécies (composição ou abundância)



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7) localização geográfica (latitude, longitude, país, estado, município e local específico)

8) altitude, temperatura média anual e precipitação anual (WorldClim v. 2.0)

Métodos

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3) horário de amostragem (manhã, tarde, noite)



4) esforço amostral (mês e ano inicial e final)



5) lista de espécies (composição ou abundância)



6) endemismo (*sensu* Haddad et al. 2013)



7) localização geográfica (latitude, longitude, país, estado, município e local específico)



8) altitude, temperatura média anual e precipitação anual (WorldClim v. 2.0)

Métodos

Informações compiladas dos trabalhos de inventários de comunidades:

1) habitat amostrado (e.g. floresta, lago, riche)



2) métodos de amostragem (e.g. busca visual, *pitfall*, encontro ocasional)



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8) altitude, temperatura média anual e precipitação anual (WorldClim v. 2.0)



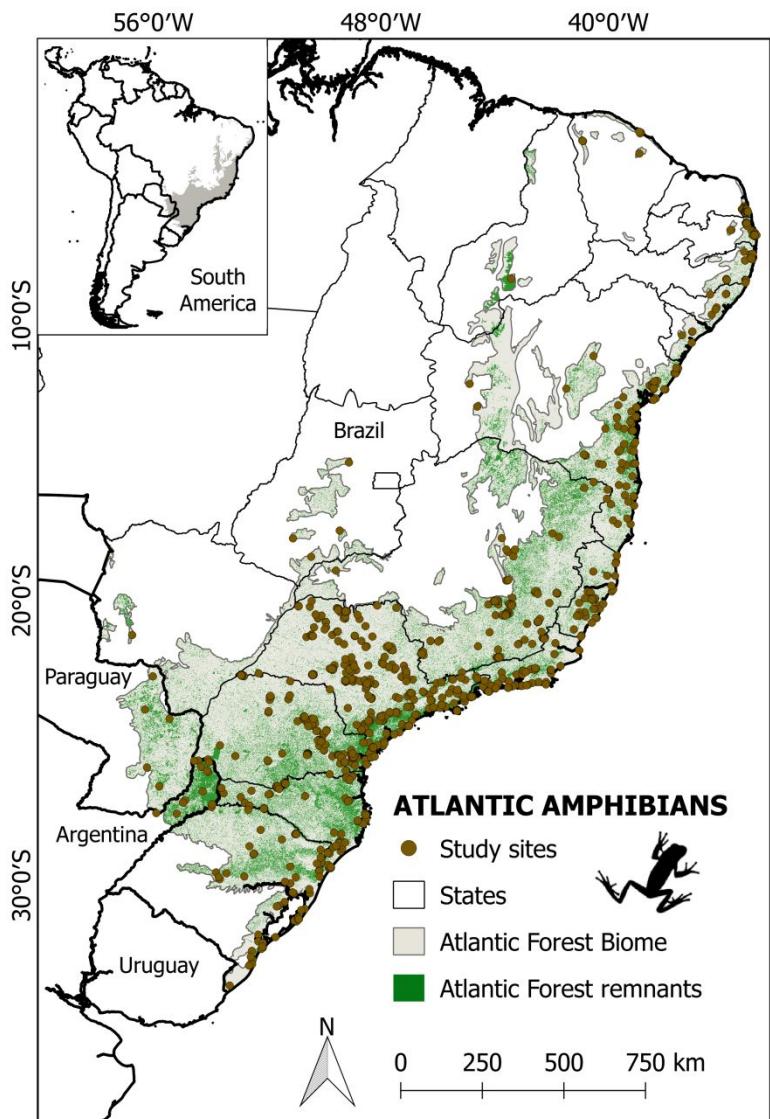
Distribuição dos locais de estudo

Total de locais de estudo:

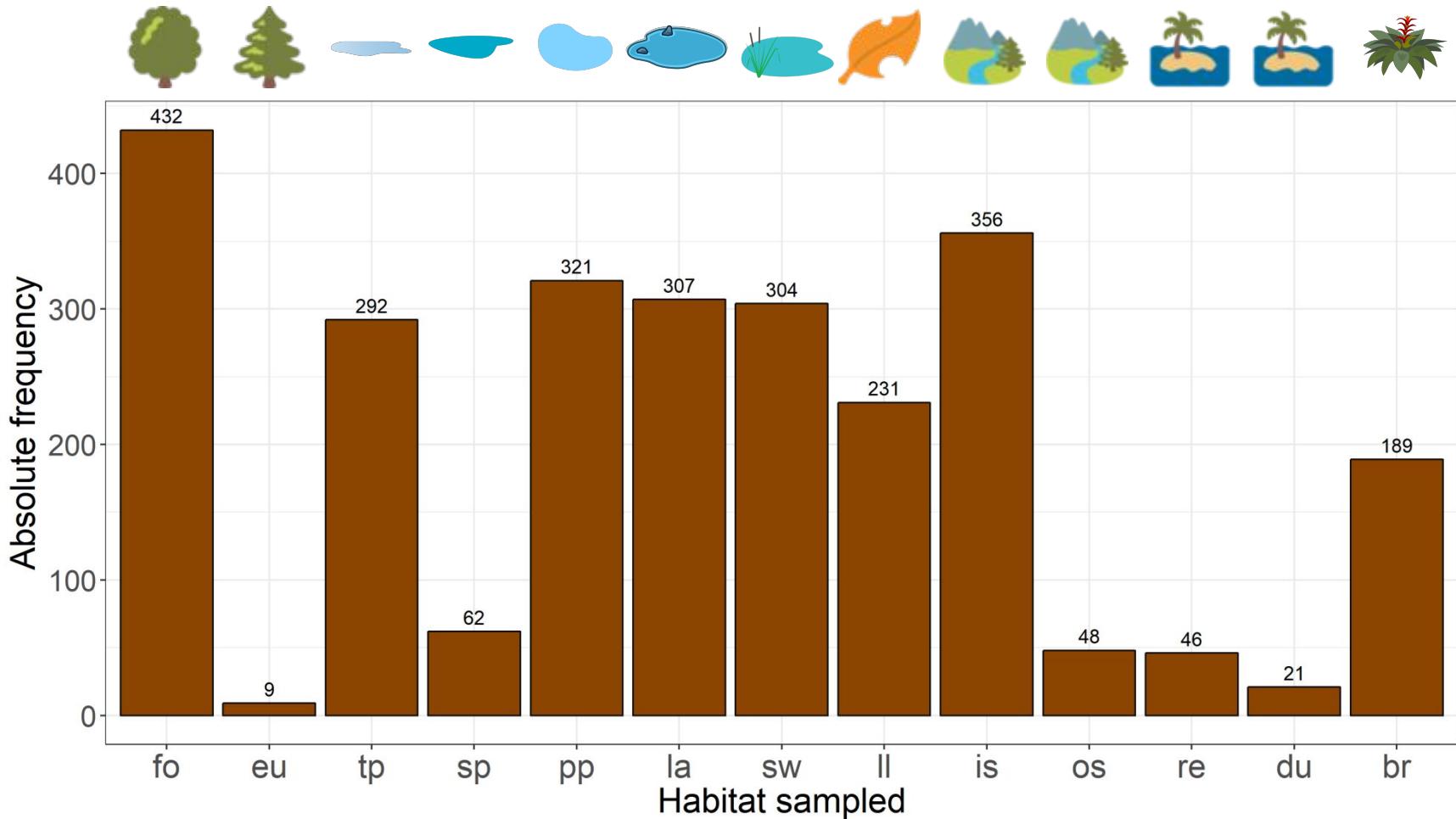
- 1163 amostragens

Tipos de registros das espécies:

- 817 (70%) composição
- 346 (30%) abundância

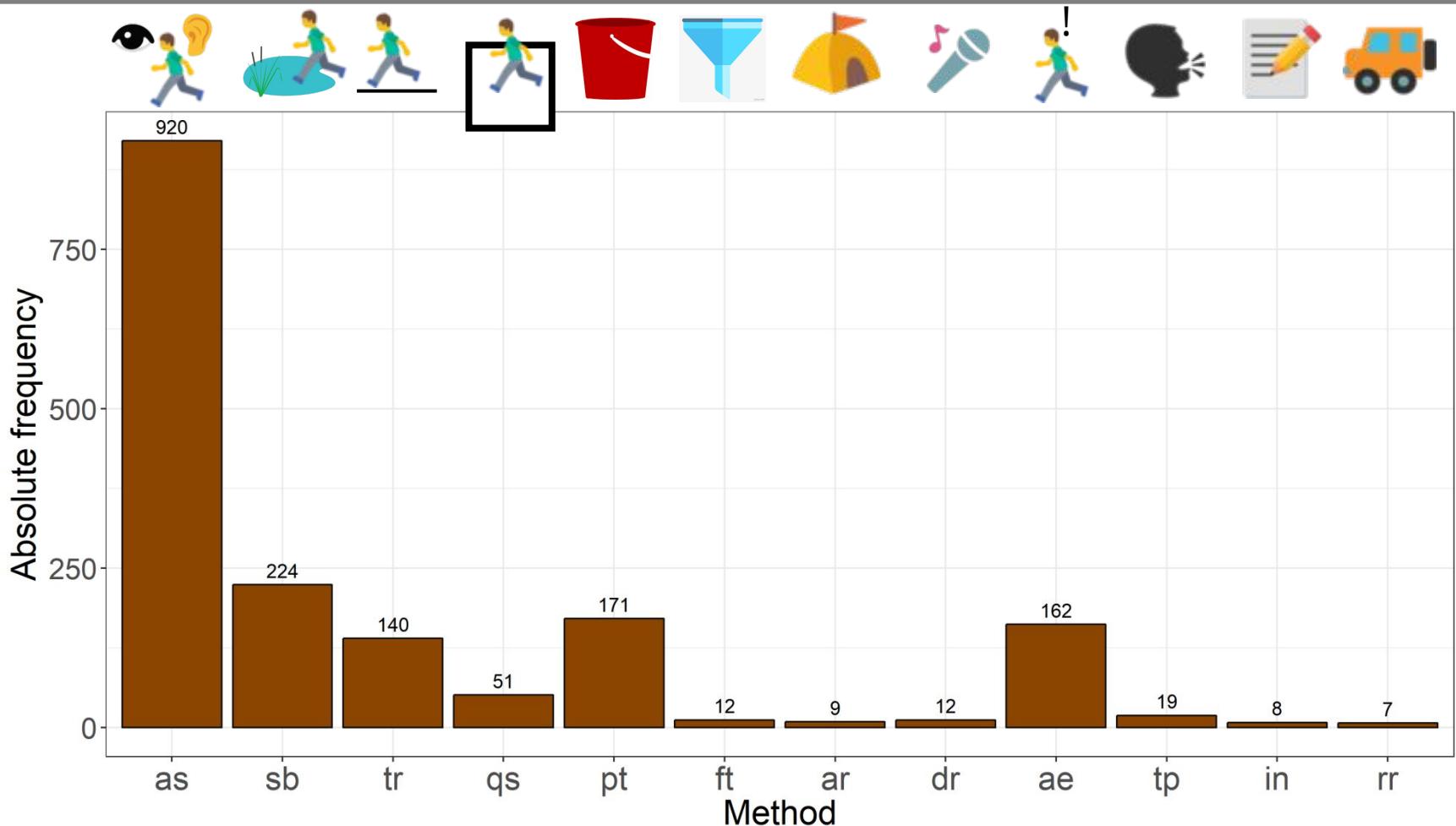


Habitat amostrados



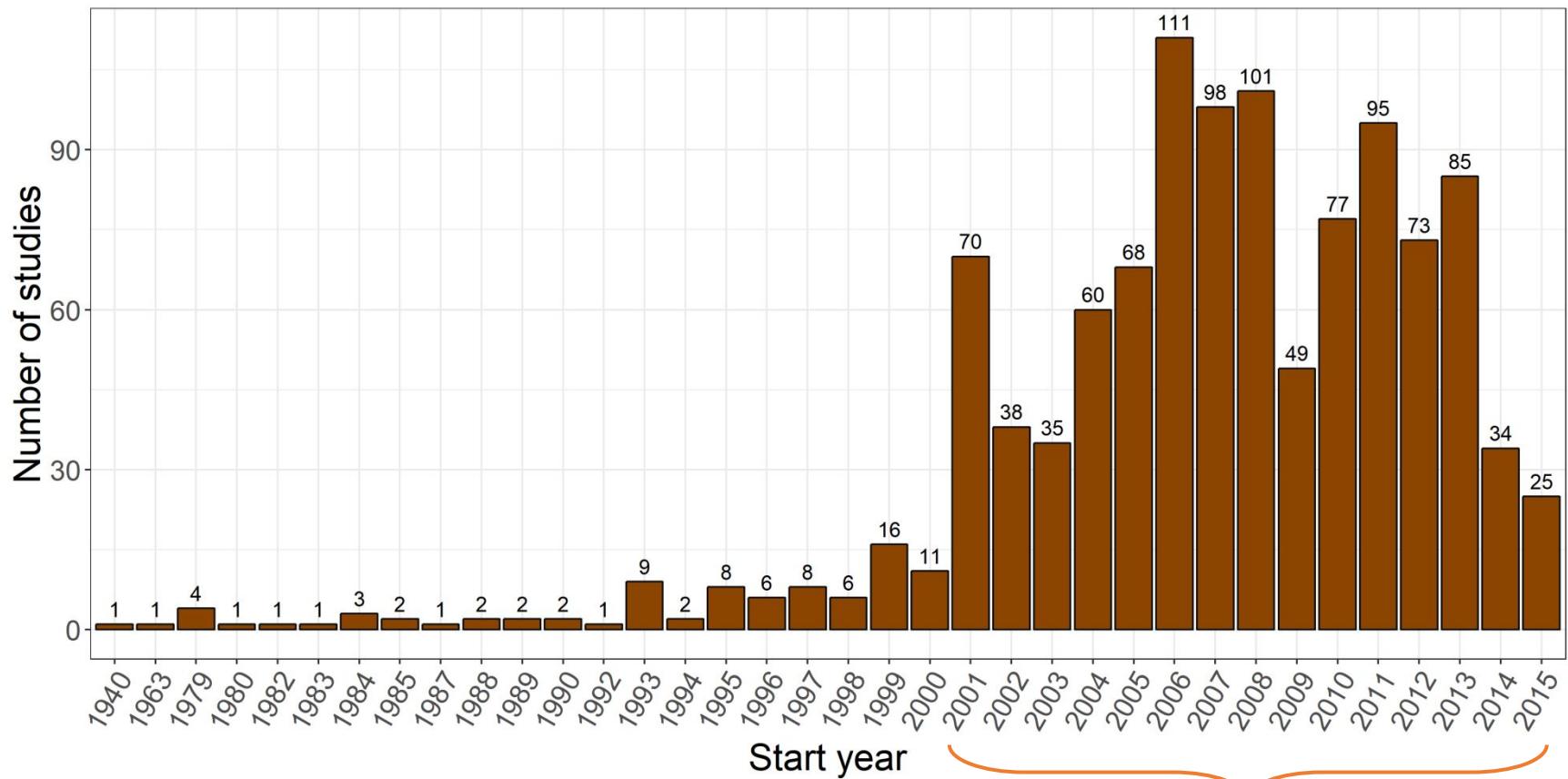
fo: forest, eu: eucalyptus, tp: temporary pond, sp: semi-permanent pond, pp: permanent pond, la: lake, sw: swamp, ll: leaf litter, is: stream in the forest interior, os: open area stream, re: restinga, du: dunes, br: bromeliads

Métodos utilizados

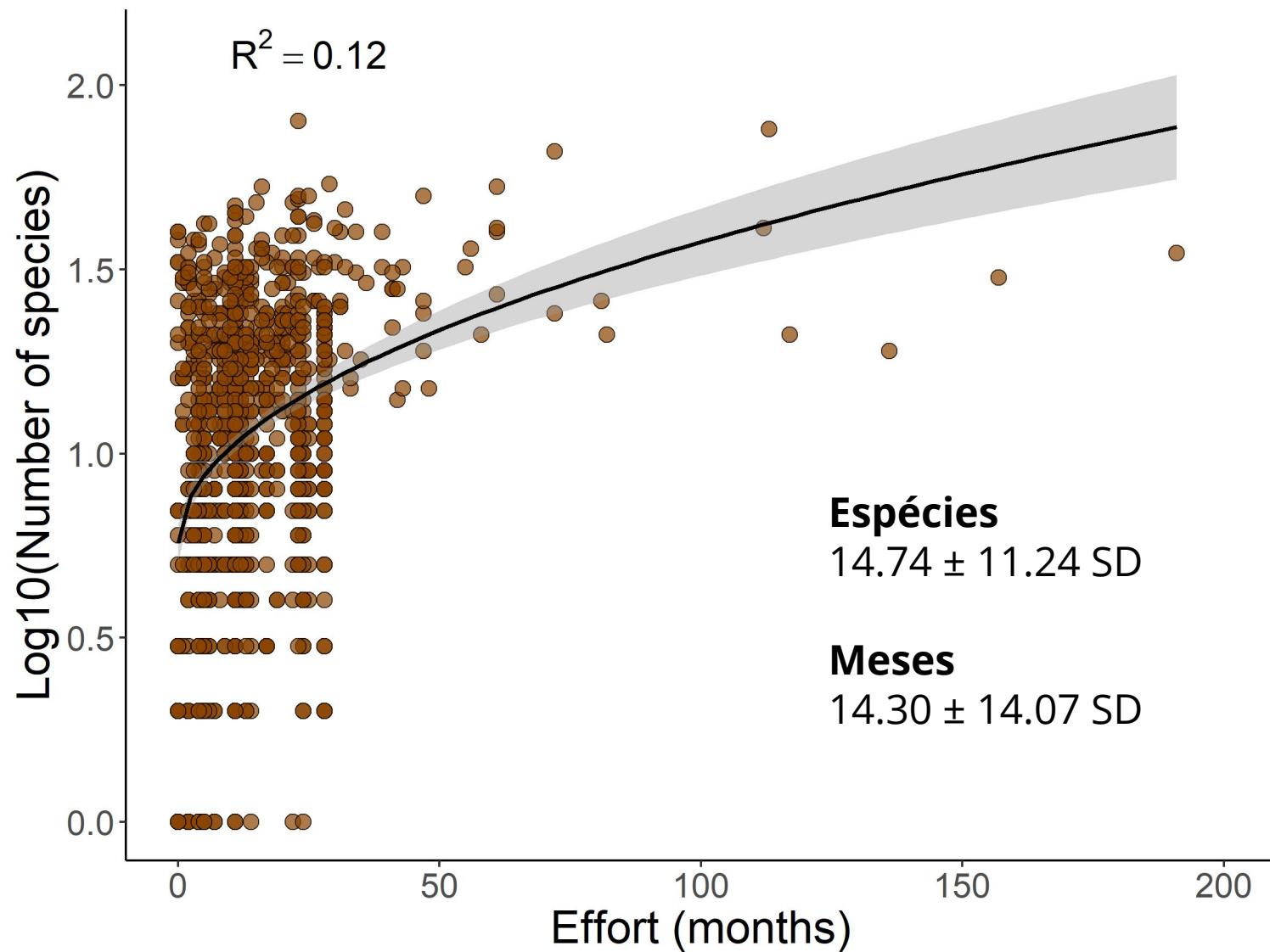


as: active surveys, sb: survey at breeding site, tr: transect, qs: quadrant surveys, pt: pitfall traps, ft: funnel traps, ar: artificial shelters, dr: digital recorders, ae: accidental encounter, tp: third-party records, in: interview, rr: road riding

Ano de início das amostragens



Número de espécies e esforço



Espécies

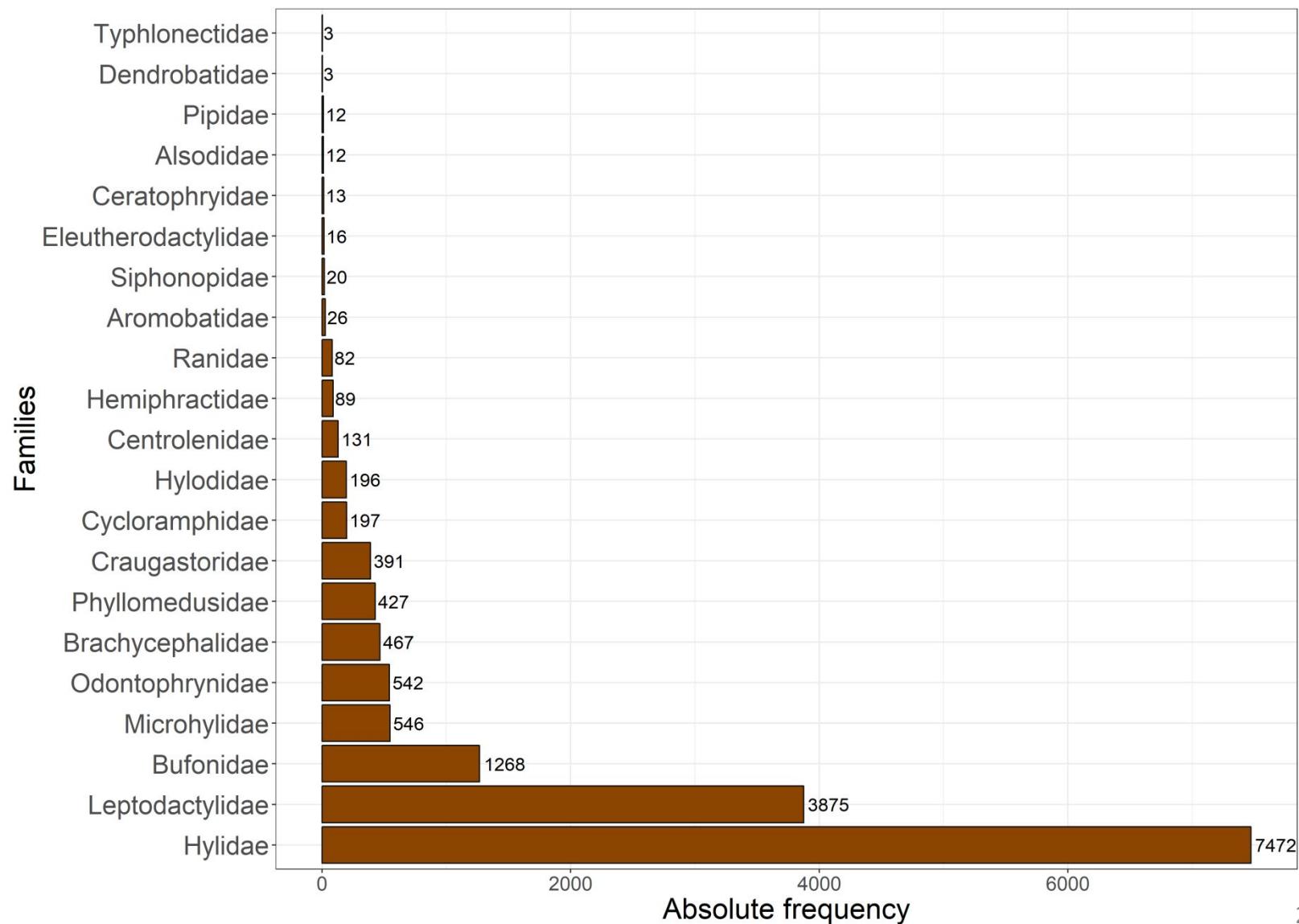
Cerca de **90% (15839) dos registros** possui certeza taxonômica de **528 espécies**

As 10 espécies mais frequentes (26%):

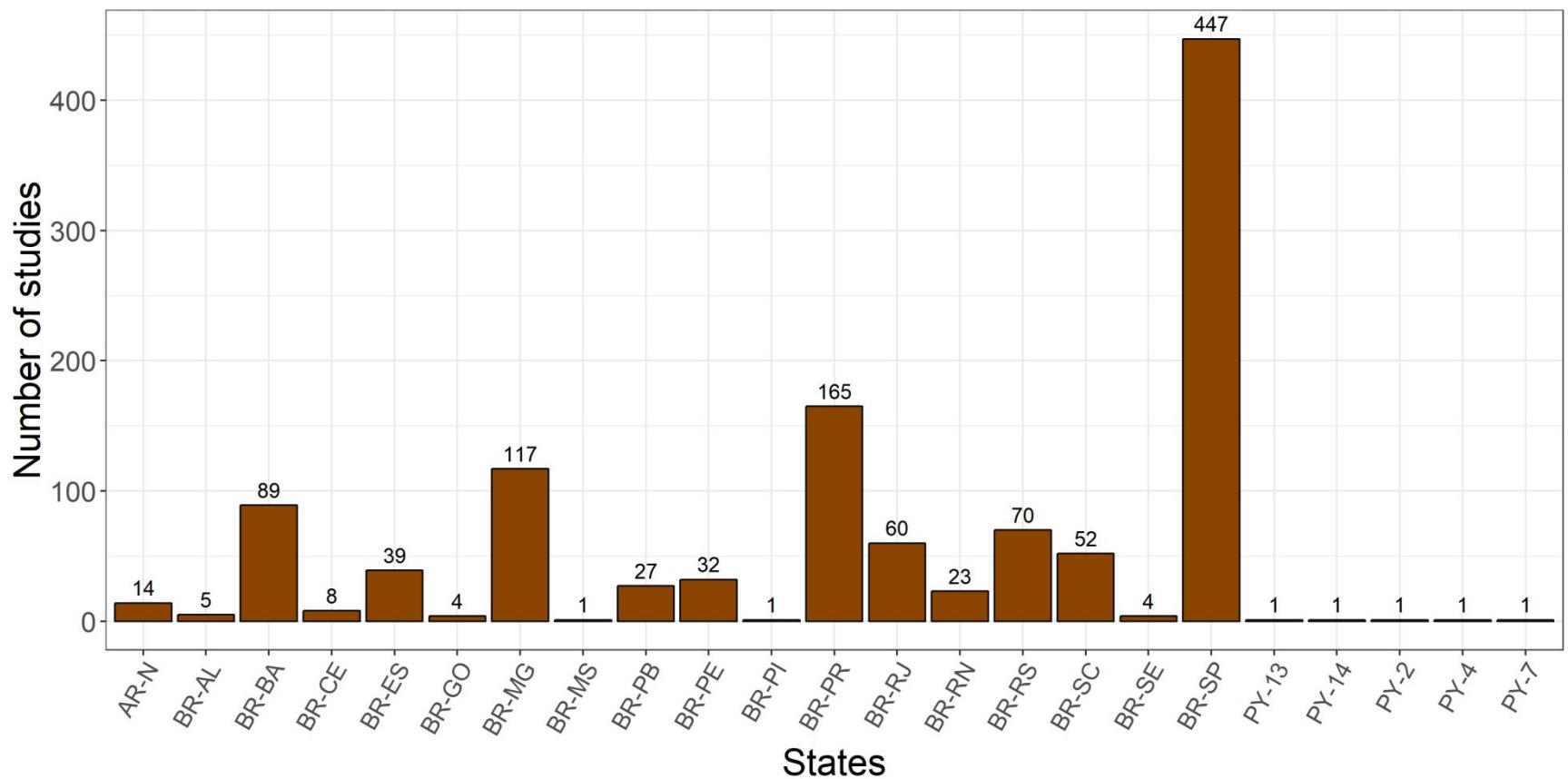
- *Physalaemus cuvieri* (4.1%)
- *Dendropsophus minutus* (3.8%)
- *Boana faber* (3.1%)
- *Scinax fuscovarius* (2.8%)
- *Leptodactylus latrans* (2.7%)
- *Leptodactylus fuscus* (2.6%)
- *Boana albopunctata* (2.3%)
- *Dendropsophus nanus* (1.6%)
- *Rhinella ornata* (1.6%)
- *Leptodactylus mystacinus* (1.6%)



Famílias



Número de locais de estudo por Estado

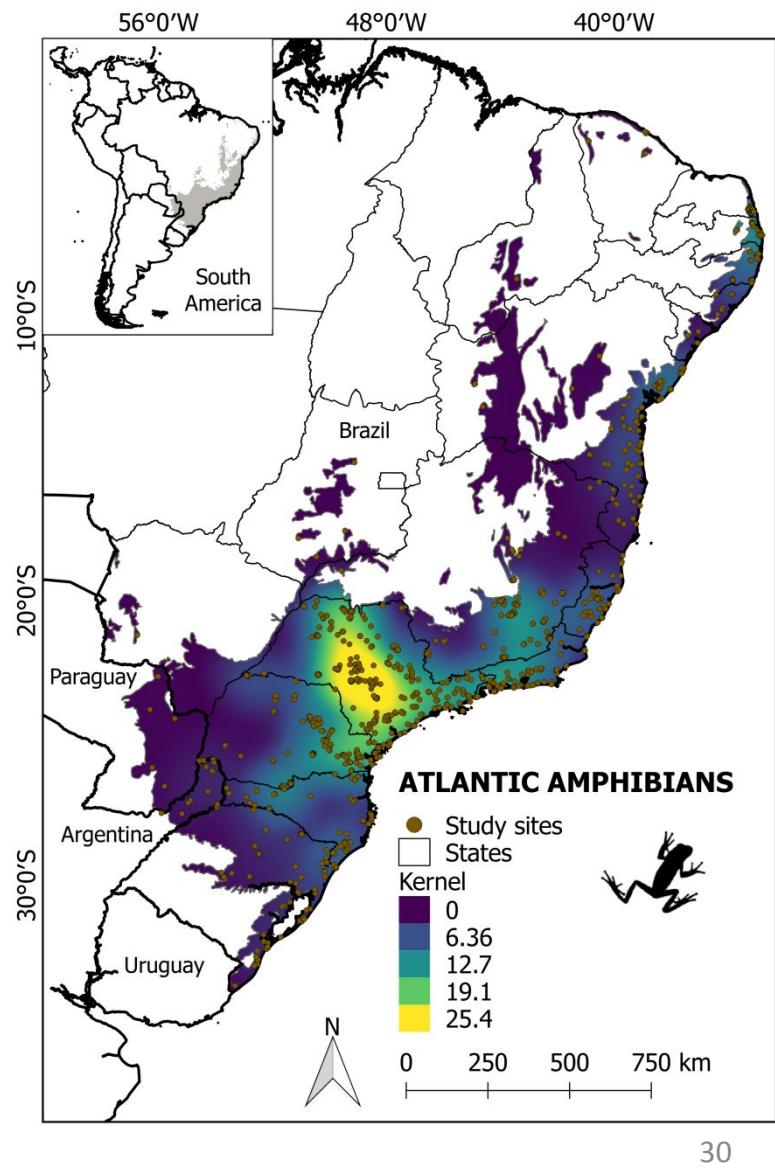
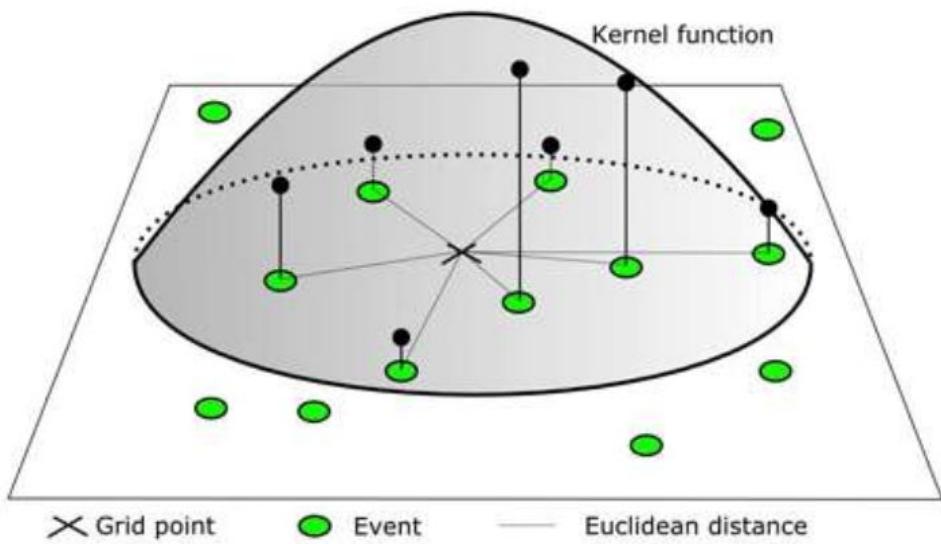


AR-N: Misiones, BR-AL: Alagoas, BR-BA: Bahia, BR-CE: Ceará, BR-ES: Espírito Santo, BR-GO: Goiás, BR-MG: Minas Gerais, BR-MS: Mato Grosso do Sul, BR-PB: Paraíba, BR-PE: Pernambuco, BR-PI: Piauí, BR-PR: Paraná, BR-RJ: Rio de Janeiro, BR-RN: Rio Grande do Norte, BR-RS: Rio Grande do Sul, BR-SC: Santa Catarina, BR-SE: Sergipe, BR-SP: São Paulo, PY-13: Amambay, PY-14: Canindeyu, PY-2: San Pedro, PY-4: Guaira, PY-7: Itapua.

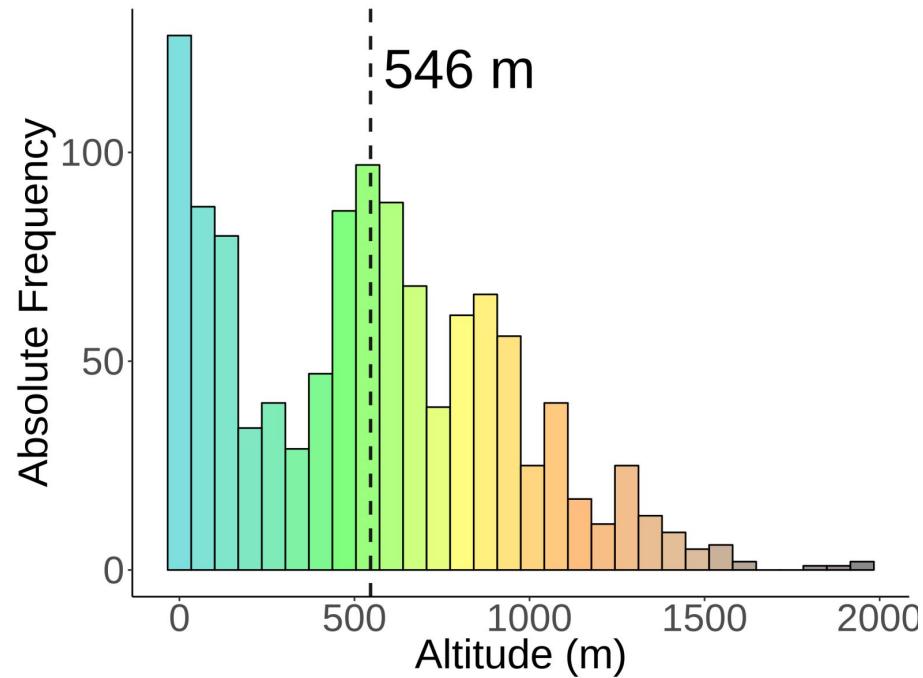
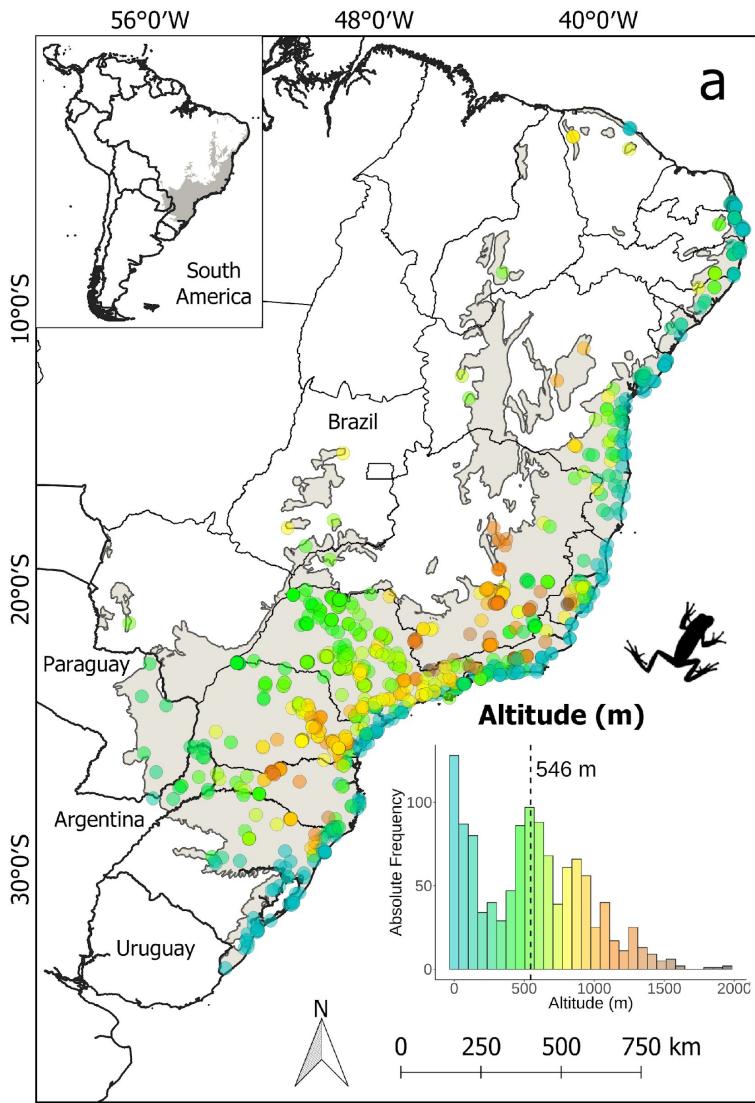
Kernel

Parâmetros

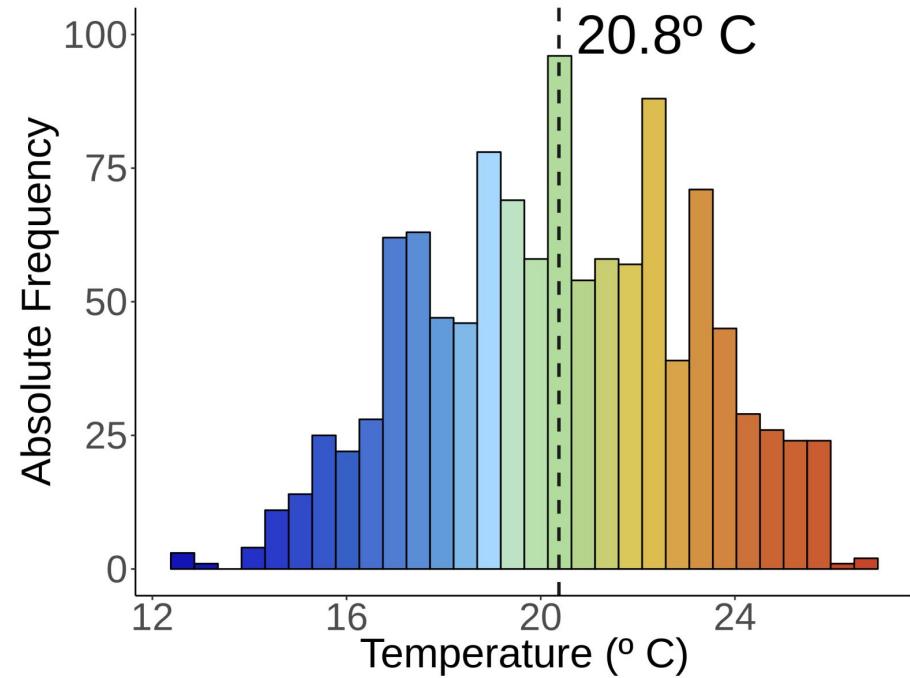
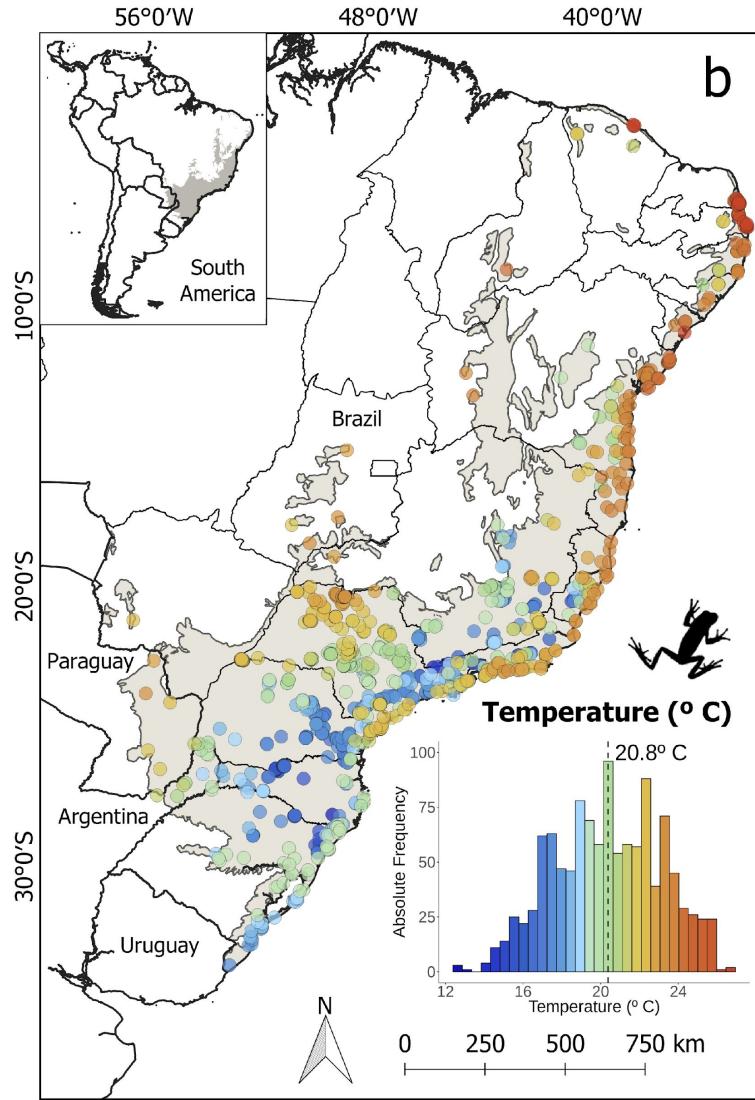
- Raio: 2° (~ 220 km)
- Resolução: 0.008333° (~ 1 km)
- Método: "quartic"
- GRASS GIS: módulo "v.kernel"
- Cor: 5 classes iguais, usando a paleta "viridis" no QGIS



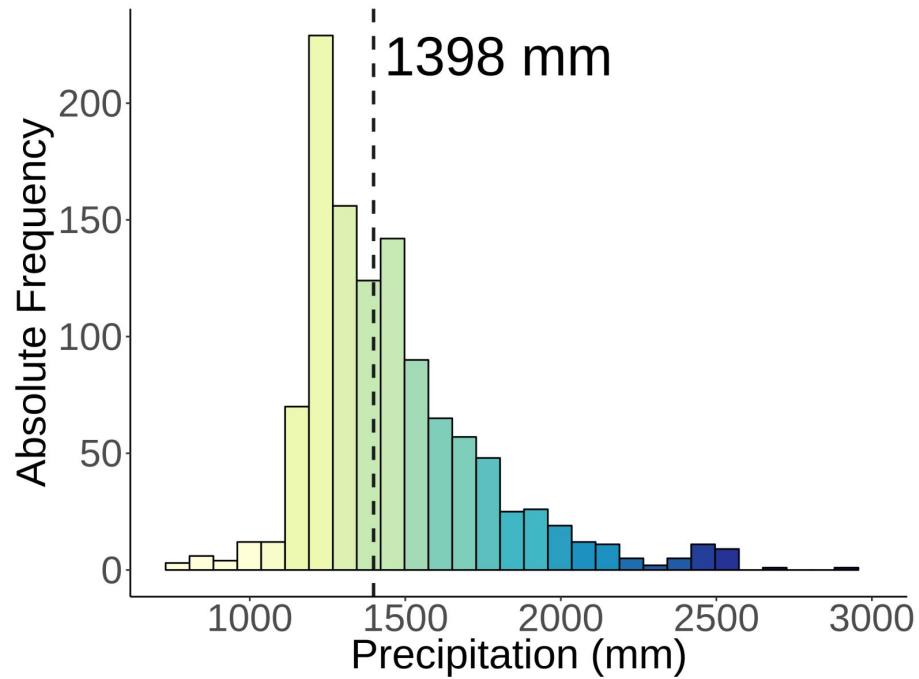
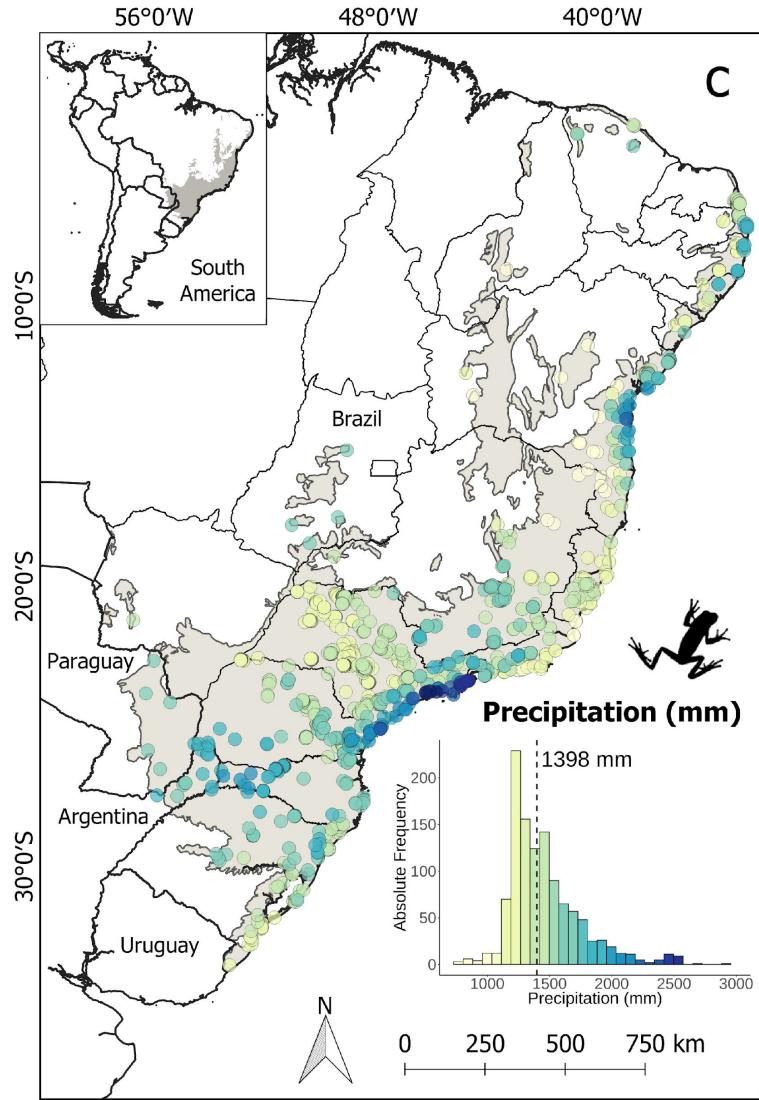
Altitude



Temperatura



Precipitação



Discussão

Limitações

- Diversos **métodos de amostragem** foram empregados, geralmente não comparáveis entre si

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- Não incluímos dados de museus, coleções científicas ou de relatório de consultorias (EIA/RIMA/RAP)

Conclusão

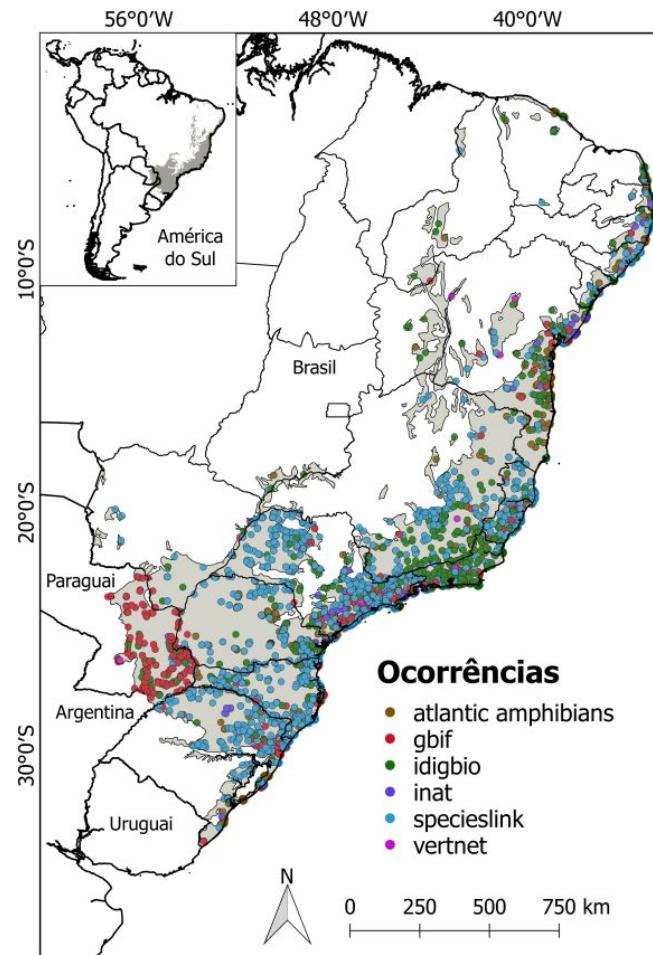
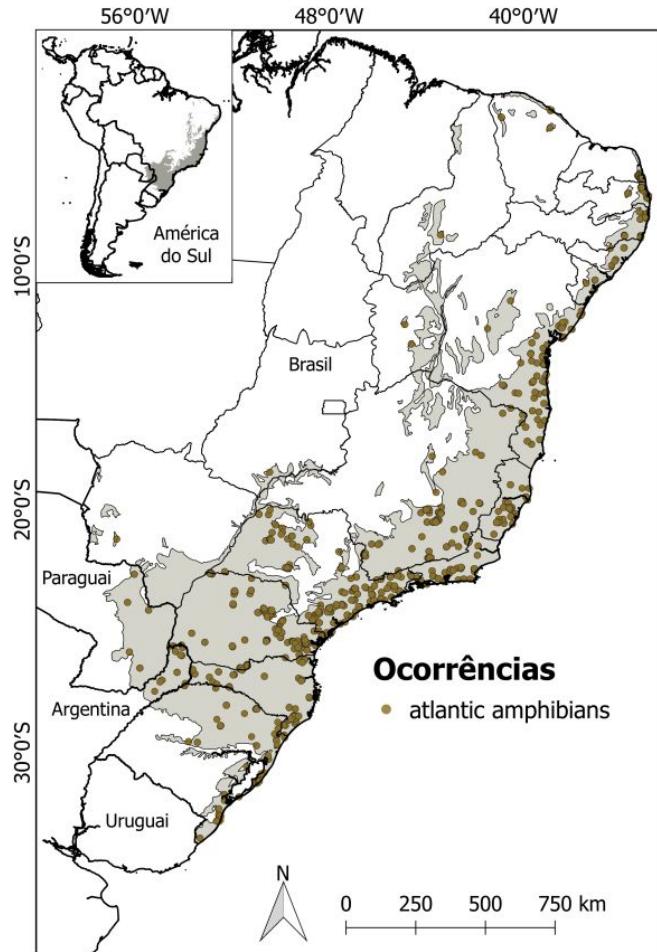
- Uma das **maiores compilações** de inventários de comunidades de anfíbios para a região Neotropical, **preenchendo uma grande lacuna** de dados da Mata Atlântica

Conclusão

- Uma das maiores compilações de inventários de comunidades de anfíbios para a região Neotropical, preenchendo uma grande lacuna de dados da Mata Atlântica
- Uso como uma ferramenta para proposta de novos estudos sobre amostragem de anfíbios e no desenvolvimento de planejamentos para a conservação

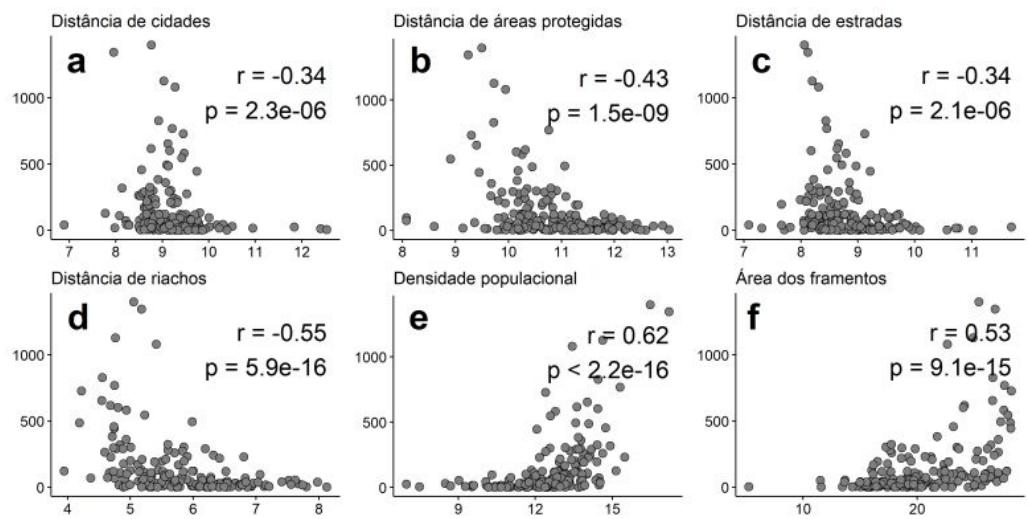
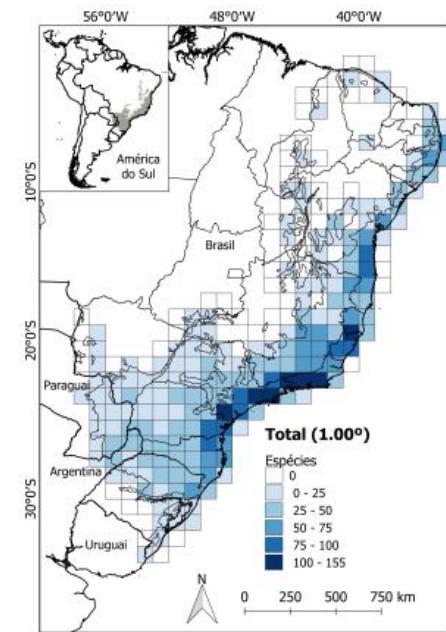
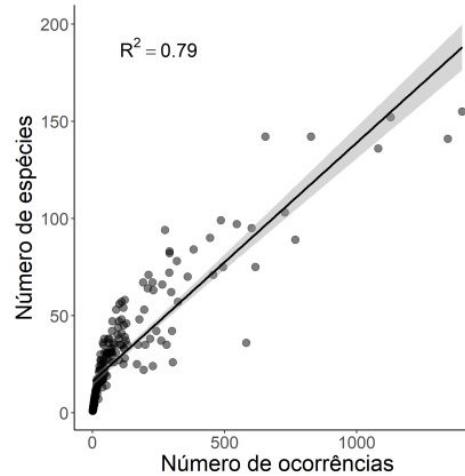
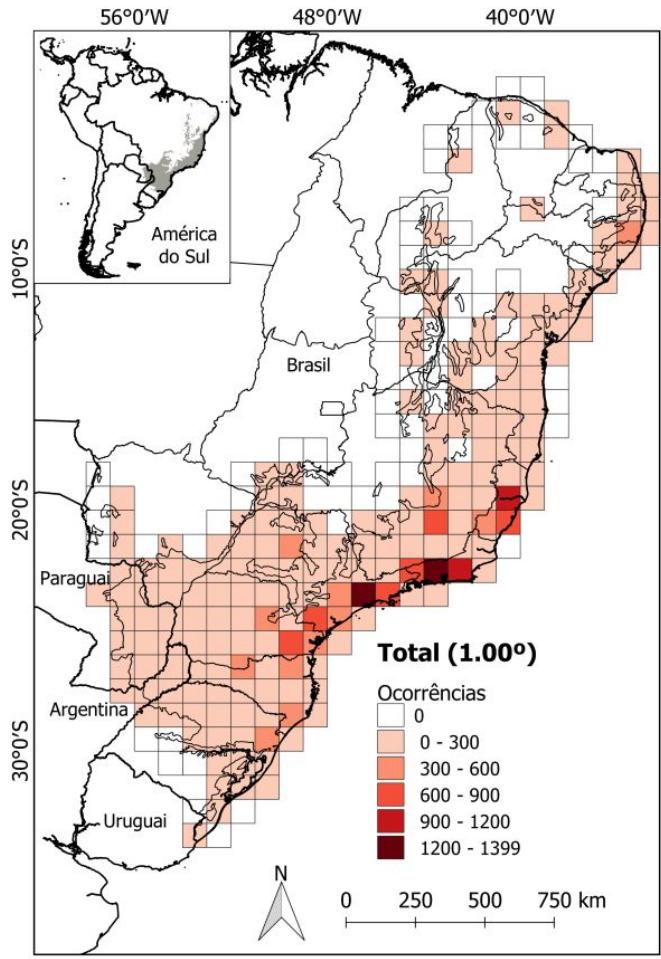
O que estamos desenvolvendo....

Lacunas de amostragem



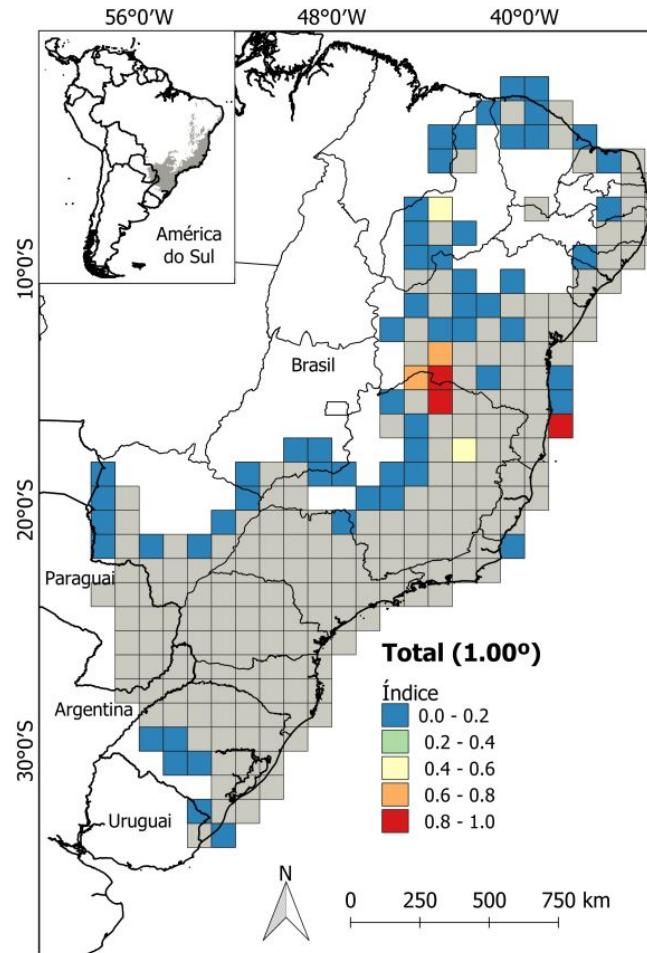
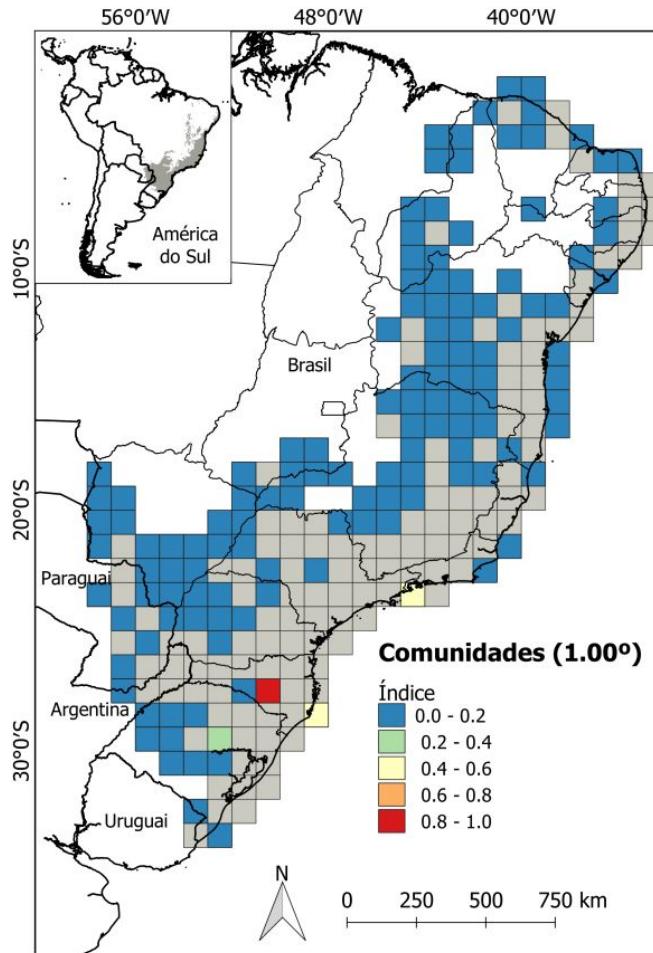
O que estamos desenvolvendo....

Lacunas de amostragem



O que estamos desenvolvendo....

Novas áreas de amostragem



$$I_a = \frac{\text{Área}}{\frac{100}{\left(\frac{\text{Estradas}}{1000}\right)^2}}$$

Grato à todxs!

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mauriciovancine.netlify.com



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