



# Ants (Insecta, Hymenoptera, Formicidae) from the Floresta da Tijuca sector, Parque Nacional da Tijuca, Rio de Janeiro, Brazil

Márcio Morais Silva<sup>‡,§</sup>, Antônio J. Mayhé Nunes<sup>‡</sup>, Felipe F. F. Moreira<sup>§</sup>

‡ Fundação Oswaldo Cruz, Programa de Pós-graduação em Biodiversidade e Saúde, Rio de Janeiro, Brazil

§ Fundação Oswaldo Cruz, Instituto Oswaldo Cruz, Laboratório de Entomologia, Rio de Janeiro, Brazil

| Universidade Federal Rural do Rio de Janeiro, Seropédica, Brazil

Corresponding author: Márcio Morais Silva ([mmorais.bio@gmail.com](mailto:mmorais.bio@gmail.com))

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## Abstract

### Background

Ants (Insecta, Hymenoptera, Formicidae) are social insects and one of the most abundant groups of animals. Their colonies are established in a wide range of habitats, such as in cavities in the ground, litter on the forest floor or in rocky cracks. Currently, there are approximately 15,000 valid species of ants, of which about 6,000 are recorded from the Neotropical Region. The Atlantic Forest is one of the biomes with the greatest biodiversity, showing a high degree of endemism. However, it has suffered severe impacts and is now reduced to a fraction of the original area. One of the most significant remnants of the Atlantic Forest is the Parque Nacional da Tijuca (PNT), a protected area located in the state of Rio de Janeiro, Brazil. There is limited knowledge about the myrmecofauna of the PNT, with most research efforts focused on the Serra da Carioca sector.

## New information

In the present study, we performed the first inventory of the mirmecofauna of the Floresta da Tijuca sector of the PNT, using pitfall traps and Winkler extractors in areas with three different degrees of preservation. In total, 80 species are recorded from Floresta da Tijuca, of which 18 are reported for the first time from this sector, 37 from the PNT, 10 from the State of Rio de Janeiro and one from the Atlantic Forest biome. These results increase the known diversity of ants of the PNT from 149 to 200 species. Furthermore, the known geographic distribution of *Hypoponera viri* (Santschi, 1923) is extended northwards, those of *Holcaponera mina* Brown, 1956 and *Neocerapachys neotropicus* Weber, 1939, southwards and *Brachymyrmex bruchi* Forel, 1912 and *Hypoponera parva* (Forel, 1909), eastwards. The most abundant species in our samples was *Holcaponera moelleri* (Forel, 1912), followed by *Pachycondyla striata* F. Smith, 1858, *Strumigenys denticulata* Mayr, 1887, *Hypoconera trigona* (Mayr, 1887), *Megalomyrmex goeldii* Forel, 1912 and *Hylomyrma reitteri* (Mayr, 1887). The primary forest area was the richest, followed by the disturbed and advanced restoration areas. The species richness was higher in the primary forest and advanced restoration areas during the dry season, while it was higher in the disturbed area during the rainy season.

## Introduction

Ants (Insecta, Hymenoptera, Formicidae) are social insects and one of the most abundant and widely distributed groups of animals, being absent only from polar regions (Hölldobler and Wilson 1990). Ant colonies are established in a wide range of habitats, such as cavities in the ground, layers of branches and litter on the forest floor or in rocky cracks. In the canopy, they usually establish mutualistic associations with plants, offering protection against herbivory in exchange for shelter and/or food (Janicki et al. 2016, Guénard 2017). They represent a large portion of the terrestrial organism abundance in forests, where several environmental services are associated with their biology (Hölldobler and Wilson 1990, Elizalde et al. 2020).

Currently, there are approximately 15,000 valid species of ants, of which about 6000 have been recorded from the Neotropical Region (Kass et al. 2022, Bolton 2024). Brazil is especially rich in ants due to its continental dimensions and great diversity of biomes and ecosystems, which provide many different niches that are occupied by these insects (Silva et al. 2022). However, despite being in one of the most studied bioregions in the world, there are still many regions of the country that are poorly explored or even completely unexplored (Feitosa et al. 2022).

Located mainly within Brazil, the Atlantic Forest is considered a biodiversity hotspot, with high degrees of species richness and endemism (Wilson et al. 2021). Since the 16<sup>th</sup> century, this biome has been suffering impacts caused by the exploration of natural resources, forest fragmentation, land use for monocultures and the founding and expansion of cities (Rezende et al. 2018). The myrmecofauna of the Atlantic Forest has

been studied from different perspectives, such as in the use as a bioindicator (Ribas et al. 2012), population dynamics (Bihn et al. 2008) and provision of ecological services (Garcia et al. 2020), amongst others. Nonetheless, the local species richness might still be underestimated, mainly because many areas within this biome are difficult to access or have not been sufficiently sampled (Carlucci et al. 2021). Here, we contribute to reduce such knowledge gap by carrying out the first survey of the myrmecofauna of the Floresta da Tijuca sector, Parque Nacional da Tijuca, Rio de Janeiro, Brazil.

## Materials and methods

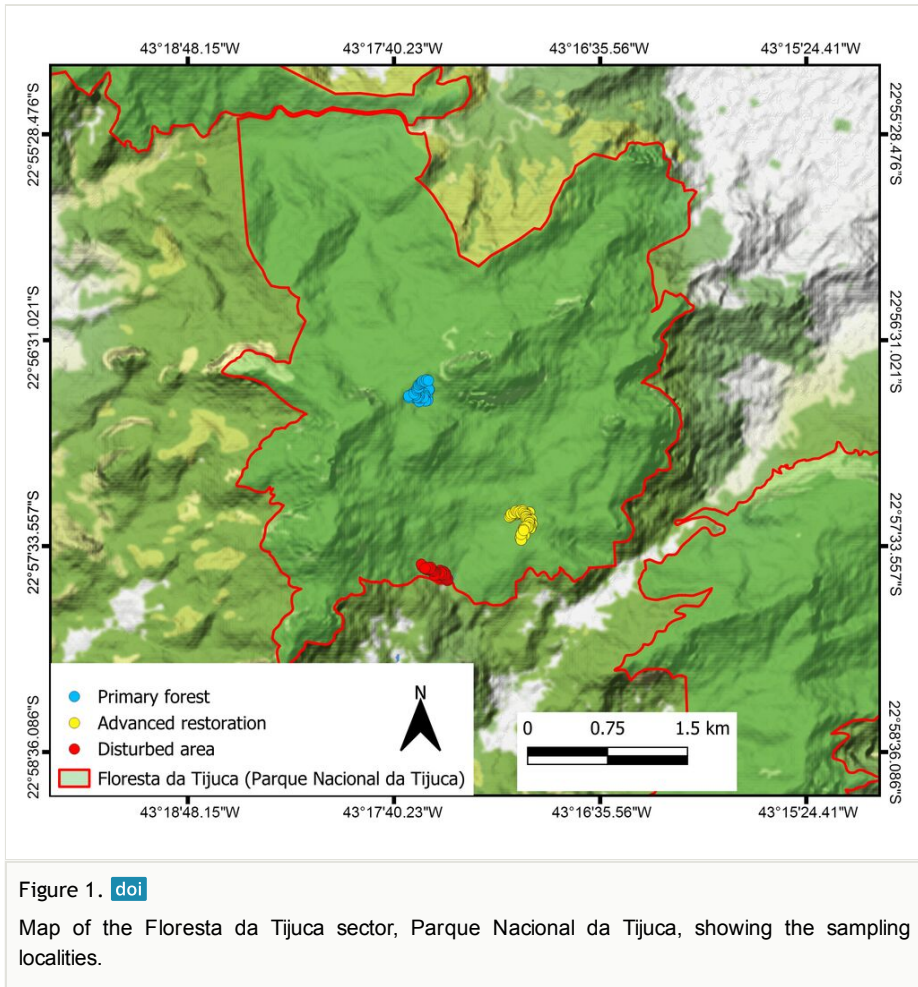
### Study area

The Parque Nacional da Tijuca (PNT) (22°55'–23°00' S, 043°11'–043°19' W) is an environmental protection area located in the Atlantic Forest biome and divided into four geographic sectors, namely Serra da Carioca, Pedra da Gávea and Pedra Bonita, Pretos Forros and Covanca and Floresta da Tijuca (Ministério do Meio Ambiente 2008). The PNT is one of the largest urban parks in the world, occupying 3953 hectares or 3.5% of the area of the Municipality of Rio de Janeiro, State of Rio de Janeiro, Brazil. The average annual temperature is 22°C and the average annual rainfall is 2250 mm (Miranda and Avelar 2021). The predominant vegetation is a typical tropical rainforest, characterised by large trees, palms, ferns, epiphytes and lianas (Freitas et al. 2006, Varassin et al. 2021). Since the colonisation by the Portuguese, the region suffered severe impacts due to logging and farming, leading to the removal of a large portion of the natural vegetation and the loss of biodiversity. Then, during the second half of the 19<sup>th</sup> century, a reforestation process started, aiming to preserve the water supply for the City of Rio de Janeiro (Araujo and Avelar 2018). The establishment and regulation of the area as a national park happened in 1961 and, since then, it serves as a refuge and for the re-introduction of native plant and animal species (Ministério do Meio Ambiente 2008, Silva and Brandão 2020, Mittelman et al. 2021).

### Sampling and analysis

Three regions in the Floresta da Tijuca sector of the PNT were selected (Fig. 1). According to the PNT management plan (Ministério do Meio Ambiente 2008), those regions are currently in three different levels of preservation, being classified as primary forest (PF), advanced restoration (ARS) and disturbed (DTBD). In each of them, two 180 m transects were established, with a distance of 50 m between them and an interval of 20 m between individual sampling points, totalling 240 samples. Collection was performed under SISBIO permit 78112-1, during the dry season (July 2021) and the rainy season (January 2022), using two techniques in each transect — 20 pitfall traps placed for 48 hours in the field and 20 samples of 1 m<sup>2</sup> of litter sorted using a Winkler extractor for 48 hours. These techniques complement each other, as they can sample the diversity of soil ants more representatively when combined (Agosti et al. 2000, Lopes et al. 2010, Orsolon-Souza et al. 2011 and Baccaro et al. 2015). The specimens collected were

preserved in 70% ethanol until they were dry mounted, identified and deposited in the Coleção Entomológica Instituto Oswaldo Cruz, Fundação Oswaldo Cruz, Rio de Janeiro, Brazil.



Specimen sorting and identification were performed under a Zeiss Stemi SV6 stereomicroscope by following Kempf (1962), Kempf (1966), Brandão (1990), Latke (1997), LaPolla (2004), Longino and Fernández (2007), Wild (2007), Galvis and Fenández (2009), Mackay and Mackay (2010), Sosa-Calvo et al. (2010), Longino (2013), Baccaro et al. (2015), Borowiec (2016), Ješovnik and Schultz (2017), Feitosa and Prada-Achiardi (2019), Fernández et al. (2019), Ortiz-Sepulveda et al. (2019), Camacho et al. (2020), Forti et al. (2022) and Probst and Brandão (2022) The geographic distribution listed for each represented species is according to the Global Ant Biodiversity Informatics (GABI) (Janicki et al. 2016 and Guénard 2017) and the ATLANTIC ANTS (Silva et al. 2022) datasets

## Ants from the Floresta da Tijuca sector, Parque Nacional da Tijuca

### Family Formicidae Latreille, 1809

### Subfamily Amblyoponinae Forel, 1893

### *Fulakora elongata* (Santschi, 1912)

#### Material

- a. taxonRank: species; genus: *Fulakora*; specificEpithet: *elongata*; scientificNameAuthorship: (Santschi, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.0S 43 17 28.1 W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 28.1 W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Fulakora elongata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 002D4458-4529-5D74-B603-8A8951099BA2

**Distribution:** Argentina, Brazil, Paraguay, Uruguay.

**Notes:** This is the first record for Floresta da Tijuca sector. Previously recorded from the Serra da Carioca sector by Veiga-Ferreira et al. (2010).

### Subfamily Dolichoderinae Forel, 1878

### *Linepithema angulatum* (Emery, 1894)

#### Material

- a. taxonRank: species; genus: *Linepithema*; specificEpithet: *angulatum*; scientificNameAuthorship: (Emery, 1894); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 29.3S 43 16 58.1W; verbatimLatitude: 22 57 29.3S; verbatimLongitude: 43 16 58.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema angulatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D8D83C19-C430-52CB-BE21-8C1C34548598

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Panama, Peru, Venezuela. Introduced to northern Europe.

**Notes:** This is the first record for PNT. Previously recorded from Atlantic Forest fragments in the State of Rio de Janeiro by Gomes et al. (2013).

## *Linepithema micans* (Forel, 1908)

### Materials

- a. taxonRank: species; genus: *Linepithema*; specificEpithet: *micans*;  
scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 48.3S 43 17 30.5W; verbatimLatitude: 22 56 48.3S;  
verbatimLongitude: 43 17 30.5W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
female; lifeStage: adult; recordNumber: PAC110; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema micans*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: F2D4D5FB-A5AE-5493-84B3-C5BC62275091
- b. taxonRank: species; genus: *Linepithema*; specificEpithet: *micans*;  
scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 04.1S 43 21 12.6W; verbatimLatitude: 22 56 04.1S;  
verbatimLongitude: 43 21 12.6W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: PAS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema micans*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 405FD860-4F2B-5CC2-B14F-F091E933E378
- c. taxonRank: species; genus: *Linepithema*; specificEpithet: *micans*;  
scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 26.2S 43 16 55.2W; verbatimLatitude: 22 57 26.2S;  
verbatimLongitude: 43 16 55.2W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: PBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Linepithema micans*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: FAD89592-F13D-5B6A-8157-0E3775F4B55B

**Distribution:** Argentina, Brazil, Costa Rica, Paraguay, Trinidad and Tobago, Uruguay. Exotic in Mexico.

**Notes:** Recorded from the PNT without details by Wild (2007).

## Subfamily Dorylinae Leach, 1815

### *Labidus coecus* (Latreille, 1802)

#### Materials

- a. taxonRank: species; genus: *Labidus*; specificEpithet: *coecus*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 30.0W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 30.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus coecus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A43BB38C-8B4F-5C96-B09E-C5AA83C471AE
- b. taxonRank: species; genus: *Labidus*; specificEpithet: *coecus*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 49.5S 43 17 29.8W; verbatimLatitude: 23 56 49.5S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus coecus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 463F7413-CB51-5793-BC9C-F3B726ECF0C4

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Uruguay, Venezuela.

**Notes:** This is the first record for the PNT. Recorded from the State of Rio de Janeiro without details by Kempf (1972) and Watkins (1976).

### *Labidus praedator* (Smith, F., 1858)

#### Materials

- a. taxonRank: species; genus: *Labidus*; specificEpithet: *praedator*; scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;

verbatimCoordinates: 22 57 42.2S 43 17 24.3W; verbatimLatitude: 22 57 42.2S;  
 verbatimLongitude: 43 17 24.3W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex:  
 female; lifeStage: adult; recordNumber: PCC104; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus praedator*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: CDEBD54B-78EE-5102-8E74-FBCA309109E4

- b. taxonRank: species; genus: *Labidus*; specificEpithet: *praedator*;  
 scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 41.8S 43 17 25.1W; verbatimLatitude: 22 57 41.8S;  
 verbatimLongitude: 43 17 25.1W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex:  
 female; lifeStage: adult; recordNumber: PCC116; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Labidus praedator*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: E206997E-9144-5CDF-A61F-F4B4BA6F1D53

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, United States, Venezuela.

**Notes:** This is the first record for PNT. Previously recorded from the State of Rio de Janeiro without details by Kempf (1972) and Watkins (1976).

## *Neocerapachys neotropicus* Weber, 1939

### Material

- a. taxonRank: species; genus: *Neocerapachys*; specificEpithet: *neotropicus*;  
 scientificNameAuthorship: Weber, 1939; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 42.2S 43 17 24.5W; verbatimLatitude: 22 57 42.2S;  
 verbatimLongitude: 43 17 24.5W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
 female; lifeStage: adult; recordNumber: WCC107; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Neocerapachys neotropicus*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: A5E23B86-F721-5122-84EA-57D855A67249

**Distribution:** Brazil, Colombia, Costa Rica, Ecuador, Lesser Antilles, French Guiana, Peru, Trinidad and Tobago, Venezuela.

**Notes:** This is the southernmost record of this species and also the first from the Atlantic Forest biome.



## Subfamily Ectatomminae Emery, 1895

### *Ectatomma edentatum* Roger, 1863

#### Materials

- a. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*;  
scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 22.6S 43 16 58.5W; verbatimLatitude: 22 57 22.6S;  
verbatimLongitude: 43 16 58.5W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
female; lifeStage: adult; recordNumber: PBC102; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 70D094B0-827C-5C40-931F-4AE2B1209DAF
- b. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*;  
scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.8S 43 17 01.6W; verbatimLatitude: 22 57 23.8S;  
verbatimLongitude: 43 17 01.6W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
female; lifeStage: adult; recordNumber: PBC119; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 3F72E7B1-81A9-5AA9-B3B7-E116D269893A
- c. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*;  
scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.5S 43 17 00.9W; verbatimLatitude: 22 57 23.5S;  
verbatimLongitude: 43 17 00.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
female; lifeStage: adult; recordNumber: PBC111; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: D9F3E944-159C-5296-AE61-85E5EB10DF53
- d. taxonRank: species; genus: *Ectatomma*; specificEpithet: *edentatum*;  
scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.8S 43 17 01.5W; verbatimLatitude: 22 57 23.8S;  
verbatimLongitude: 43 17 01.5W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:

female; lifeStage: adult; recordNumber: PBC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma edentatum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D573356F-77D3-5BDD-B437-D4CBDC247E8F

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guyana, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay, Venezuela.

**Notes:** This is the first record for Floresta da Tijuca sector. Previously recorded from the Serra da Carioca sector by Vargas et al. (2013) and Santos et al. (2019).

## *Ectatomma muticum* Mayr, 1870

### Materials

- a. taxonRank: species; genus: *Ectatomma*; specificEpithet: *muticum*; scientificNameAuthorship: Mayr, 1870; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.6S 43 17 00.7W; verbatimLatitude: 22 57 23.6S; verbatimLongitude: 43 17 00.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PBC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma muticum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 527E3A9A-2810-57C2-911A-18AF312CB192
- b. taxonRank: species; genus: *Ectatomma*; specificEpithet: *muticum*; scientificNameAuthorship: Mayr, 1870; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 24.5S 43 16 56.7W; verbatimLatitude: 22 57 24.5S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma muticum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B81EBEED-468E-5CA6-9824-AAC60813DEAC

**Distribution:** Brazil, Colombia, Guyana, Paraguay. The record from Mexico is dubious.

**Notes:** This is the first record for State of Rio de Janeiro.

***Ectatomma permagnum* Forel, 1908****Material**

- a. taxonRank: species; genus: *Ectatomma*; specificEpithet: *permagnum*;  
 scientificNameAuthorship: Forel, 1908; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 23.0S 43 16 58.5W; verbatimLatitude: 22 57 23.0S;  
 verbatimLongitude: 43 16 58.5W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: PBS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Ectatomma permagnum*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 4CBD3F9B-4C1B-58A3-857B-8A8039FBFE20

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Paraguay. The record from Guyana is dubious.

**Notes:** This is the first record for the PNT. Kempf (1972) recorded this species from the City of Rio de Janeiro without details.

***Gnamptogenys continua* (Mayr, 1887)****Materials**

- a. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *continua*;  
 scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S;  
 verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex:  
 female; lifeStage: adult; recordNumber: WAC110; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys continua*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: AED2CC12-CC4C-5FFA-9306-17F1818A3086
- b. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *continua*;  
 scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 57 27.2S 43 16 55.8W; verbatimLatitude: 22 57 27.2S;  
 verbatimLongitude: 43 16 55.8W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex:  
 female; lifeStage: adult; recordNumber: WBC115; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys continua*;

- identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3DF7483E-CAED-551F-BB76-9D03D1B22B89
- c. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *continua*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.4S 43 17 26.9W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 26.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCC112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys continua*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A647FEEB-3DDA-5A3F-82B8-CD90766798F6

**Distribution:** Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guyana, Honduras, Jamaica, Mexico, Panama, Paraguay, Peru, Suriname, Venezuela.

**Notes:** This is the first record for the PNT. Silva and Brandão (2014) recorded this species from other protected areas in the State of Rio de Janeiro.

## ***Gnamptogenys horni* (Santschi, 1929)**

### **Materials**

- a. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *horni*; scientificNameAuthorship: (Santschi, 1929); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.4S 43 17 32.7W; verbatimLatitude: 22 56 48.4S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys horni*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 52805C1E-270C-5B30-A77D-2DE474F105A5
- b. taxonRank: species; genus: *Gnamptogenys*; specificEpithet: *horni*; scientificNameAuthorship: (Santschi, 1929); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 43.6S 43 17 23.0W; verbatimLatitude: 22 57 43.6S; verbatimLongitude: 43 17 23.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Gnamptogenys horni*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4667ED7B-E343-50A2-844D-2EE3C07559B9

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guyana, Lesser Antilles, Panama, Peru, Suriname, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for the PNT. Previously recorded by Orsolon-Souza et al. (2011) and Silva and Brandão (2014) from other protected areas in the State of Rio de Janeiro.

### ***Heteroponera dentinodis* (Mayr, 1887)**

#### **Material**

- a. taxonRank: species; genus: *Heteroponera*; specificEpithet: *dentinodis*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera dentinodis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6C46D4DC-8D9C-5991-BBF3-3AAC5F3A301C

**Distribution:** Bolivia, French Guiana, Brazil. The record from Costa Rica needs verification.

**Notes:** Previously recorded from "Floresta da Tijuca" by Feitosa (2011).

### ***Heteroponera dolo* (Roger, 1860)**

#### **Materials**

- a. taxonRank: species; genus: *Heteroponera*; specificEpithet: *dolo*; scientificNameAuthorship: (Roger, 1860); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.1S 43 17 29.5W; verbatimLatitude: 22 56 43.1S; verbatimLongitude: 43 17 29.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WAC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera dolo*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 42EBFD7A-8334-5056-8A96-9E033651BB73
- b. taxonRank: species; genus: *Heteroponera*; specificEpithet: *dolo*; scientificNameAuthorship: (Roger, 1860); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;

verbatimCoordinates: 22 57 39.8S 43 17 30.9W; verbatimLatitude: 22 57 39.8S;  
 verbatimLongitude: 43 17 30.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WCS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
 J. C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera dolo*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 4E819A45-2214-5577-8AE4-9BEAC7C2D9A8

**Distribution:** Argentina, Brazil, Colombia, Paraguay, Uruguay.

**Notes:** This is the first record for the PNT. Kempf (1972) recorded this species from the City of Rio de Janeiro without details.

## ***Heteroponera mayri* Kempf, 1962**

### **Materials**

- a. taxonRank: species; genus: *Heteroponera*; specificEpithet: *mayri*;  
 scientificNameAuthorship: Kempf, 1962; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S;  
 verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
 lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera mayri*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 58D6CF36-4FEF-5083-A197-7AAC007D72E1
- b. taxonRank: species; genus: *Heteroponera*; specificEpithet: *mayri*;  
 scientificNameAuthorship: Kempf, 1962; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da  
 solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S;  
 verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Heteroponera mayri*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 32C3A15C-1CE7-5A82-9714-987E97CBDBE9

**Distribution:** Argentina, Brazil, Paraguay, Puerto Rico. Records from Colombia and Mexico need verification.

**Notes:** This is the first record for the PNT. Silva and Brandão (2014) recorded this species from other protected areas in the State of Rio de Janeiro.

***Holcoponera mina* Brown, 1956****Material**

- a. taxonRank: species; genus: *Holcoponera*; specificEpithet: *mina*;  
 scientificNameAuthorship: Brown, 1956; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S;  
 verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
 lifeStage: adult; recordNumber: WAS118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera mina*; identifiedBy: M. M. Silva;  
 type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 72E1DF36-C242-529F-8C2C-B488922A965A

**Distribution:** Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Peru, Venezuela. The record from Mexico needs verification.

**Notes:** This is the first record for the State of Rio de Janeiro, which expands the known range southwards.

***Holcoponera moelleri* Forel, 1912****Materials**

- a. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*;  
 scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 46.0S 43 17 29.1W; verbatimLatitude: 22 56 46.0S;  
 verbatimLongitude: 43 17 29.1W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 8; sex: female;  
 lifeStage: adult; recordNumber: PAS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 674B4090-C7F0-5506-AF90-BE16201B4760
- b. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*;  
 scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.0S 43 17 31.3W; verbatimLatitude: 22 56 47.0S;  
 verbatimLongitude: 43 17 31.3W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female;  
 lifeStage: adult; recordNumber: WAS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M.

- Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 943CC490-7448-54C1-B5A4-3FA422DC3DBC
- c. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 22.7S 43 16 57.9W; verbatimLatitude: 22 57 22.7S; verbatimLongitude: 43 16 57.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: PBC104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 29D1E83A-EDBE-5619-A401-92C3A95EEF90
- d. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 27.2S 43 16 55.8W; verbatimLatitude: 22 57 27.2S; verbatimLongitude: 43 16 55.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-22; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: WBC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E99CF9C3-7662-5C28-B017-16CEAB827093
- e. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.8S 43 17 23.5W; verbatimLatitude: 22 57 42.8S; verbatimLongitude: 43 17 23.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: PCC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 29BD3AC6-FA84-5D6E-BF45-139102FD746A
- f. taxonRank: species; genus: *Holcoponera*; specificEpithet: *moelleri*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 23.9W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 16; sex: female; lifeStage: adult; recordNumber: WCC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Holcoponera moelleri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 0199D8B1-3579-5F74-B688-F99E33C97DB9



**Distribution:** Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Paraguay, Peru, Suriname, Venezuela

**Notes:** This is the first record for the PNT. Teixeira et al. (2019) recorded this species from another protected area in the State of Rio de Janeiro.

## *Typhlomyrmex lavra* (Lattke, 2002)

### Materials

- a. taxonRank: species; genus: *Typhlomyrmex*; specificEpithet: *lavra*;  
scientificNameAuthorship: (Lattke, 2002); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 46.8S 43 17 33.6W; verbatimLatitude: 22 56 46.8S;  
verbatimLongitude: 43 17 33.6W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: WAS116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Typhlomyrmex lavra*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: F19903AE-AF25-5BAA-95A0-942DC533B0BD
- b. taxonRank: species; genus: *Typhlomyrmex*; specificEpithet: *lavra*;  
scientificNameAuthorship: (Lattke, 2002); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 27.0S 43 16 55.4W; verbatimLatitude: 22 57 27.0S;  
verbatimLongitude: 43 16 55.4W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
lifeStage: adult; recordNumber: WBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Typhlomyrmex lavra*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: C3C1CB57-46B2-5341-9CA0-FCF0D60B421B
- c. taxonRank: species; genus: *Typhlomyrmex*; specificEpithet: *lavra*;  
scientificNameAuthorship: (Lattke, 2002); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 40.0S 43 17 28.5W; verbatimLatitude: 22 57 40.0S;  
verbatimLongitude: 43 17 28.5W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
female; lifeStage: adult; recordNumber: WCC118; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Typhlomyrmex lavra*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 673414FC-4FB4-52F6-9C43-AFC00F2FF57A

**Distribution:** Endemic from Brazil.

**Notes:** This is the first record for the State of Rio de Janeiro.

## Subfamily Formicinae Latreille, 1809

### *Acropyga decedens* (Mayr, 1887)

#### Material

- a. taxonRank: species; genus: *Acropyga*; specificEpithet: *decedens*;  
scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S;  
verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: WAS118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Acropyga decedens*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 577459FA-EC42-50E8-BC81-C0B99F36B2B0

**Distribution:** Brazil, Ecuador, French Guiana.

**Notes:** This is the first record for the PNT. Previously recorded from the State of Rio de Janeiro without details by Weber (1944).

### *Brachymyrmex admotus* Mayr, 1887

#### Materials

- a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *admotus*;  
scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S;  
verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female;  
lifeStage: adult; recordNumber: WAS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex admotus*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 9590DE81-383E-5788-BEFE-14D210C8C72F
- b. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *admotus*;  
scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.1S 43 16 57.9W; verbatimLatitude: 22 57 23.1S;  
verbatimLongitude: 43 16 57.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female;  
lifeStage: adult; recordNumber: PBS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex admotus*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2755422E-B6DF-5F79-A3D9-342DDEBB7DB3

- c. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *admotus*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.0S 43 17 29.2W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 29.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex admotus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9BF5B189-1E38-5E4F-AF8A-4D209260EF54

**Distribution:** Argentina, Brazil, French Guiana, Mexico, Panama, Paraguay, Uruguay, Venezuela.

**Notes:** This is the first record for the Floresta da Tijuca sector. Recorded from the Serra da Carioca sector by Santos et al. (2019).

## ***Brachymyrmex australis* Forel, 1901**

### **Materials**

- a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *australis*; scientificNameAuthorship: Forel, 1901; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.3S 43 17 30.2W; verbatimLatitude: 22 56 48.3S; verbatimLongitude: 43 17 30.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: WAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex australis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C59CC7D8-25BC-5212-81A7-97DF6B7EF23F
- b. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *australis*; scientificNameAuthorship: Forel, 1901; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 27.8S 43 16 57.3W; verbatimLatitude: 22 57 27.8S; verbatimLongitude: 43 16 57.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WBS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex australis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 7FF2A111-704D-52B6-AC1D-C697F0EE5823

- c. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *australis*;  
 scientificNameAuthorship: Forel, 1901; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 39.8S 43 17 30.9W; verbatimLatitude: 22 57 39.8S;  
 verbatimLongitude: 43 17 30.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WCS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
 J. C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex australis*; identifiedBy: M.  
 M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: BA46C87A-96B4-55BB-B2E2-B5FFA77FAE41

**Distribution:** Argentina, Bahamas, Brazil, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Guatemala, Guyana, Hispaniola, Mexico, Panama, Paraguay, Peru, Uruguay. Exotic in the Mascarene Islands. Introduced to Germany.

**Notes:** This is the first record for the PNT. Ortiz-Sepulveda et al. (2019) recorded this species from another protected area in the State of Rio de Janeiro state.

## ***Brachymyrmex bruchi* Forel, 1912**

### **Material**

- a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *bruchi*;  
 scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S;  
 verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WAS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex bruchi*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 9E5DA292-D124-5267-9031-50FB3EB98270

**Distribution:** Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guatemala, Hispaniola, Paraguay, United States, Uruguay.

**Notes:** This is the first record for State of Rio de Janeiro state, which extends the known range eastwards.

## ***Brachymyrmex degener* Emery, 1906**

### **Material**

- a. taxonRank: species; genus: *Brachymyrmex*; specificEpithet: *degener*;  
 scientificNameAuthorship: Emery, 1906; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:

Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S;  
 verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Brachymyrmex degener*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 2B620AF0-0C3F-508A-A08D-5FF59E5D8A6A

**Distribution:** Argentina, Brazil, Colombia, French Guiana, Guatemala, Guyana, Mexico, Panama, Paraguay, Trinidad and Tobago.

**Notes:** This is the first record for the State of Rio de Janeiro, which contributes to fill a gap between the States of Bahia to the north and São Paulo to the south.

## *Camponotus atriceps* (Smith, F., 1858)

### Materials

- a. taxonRank: species; genus: *Camponotus*; specificEpithet: *atriceps*;  
 scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 49.5S 43 17 29.8W; verbatimLatitude: 22 56 49.5S;  
 verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
 female; lifeStage: adult; recordNumber: PAC115; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Camponotus atriceps*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 4EEE1996-CF14-5860-BCBB-E9209390FDC4
- b. taxonRank: species; genus: *Camponotus*; specificEpithet: *atriceps*;  
 scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 24.6S 43 17 02.0W; verbatimLatitude: 22 57 24.6S;  
 verbatimLongitude: 43 17 02.0W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-21;  
 verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 1; sex:  
 female; lifeStage: adult; recordNumber: PBC116; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Camponotus atriceps*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: E0B31290-09D7-5CEB-861B-4C32578B1B80
- c. taxonRank: species; genus: *Camponotus*; specificEpithet: *atriceps*;  
 scientificNameAuthorship: (Smith, F., 1858); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 42.5S 43 17 23.8W; verbatimLatitude: 22 57 42.5S;  
 verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Camponotus atriceps*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2A87E737-0C87-5F75-AF9A-301C4CEB1927

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Uruguay, Venezuela. Introduced to Hawaii, the Netherlands, United Kingdom and Italy. The record from Cuba needs verification, whereas that from Hispaniola is dubious.

**Notes:** This is the first record for the Floresta da Tijuca sector. This species was recorded by Santos et al. (2019) from the Rio de Janeiro Botanical Garden and the Parque Lage (a urban park), both in the Serra da Carioca sector.

### *Myrmelachista bettinae* Forel, 1903

#### Material

- a. taxonRank: species; genus: *Myrmelachista*; specificEpithet: *bettinae*; scientificNameAuthorship: Forel, 1903; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.3S 43 16 59.4W; verbatimLatitude: 22 57 23.3S; verbatimLongitude: 43 16 59.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Myrmelachista bettinae*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3BC1F4A8-5B56-5078-B8EB-802F6004780A

**Distribution:** Endemic from the State of Rio de Janeiro.

**Notes:** This is the first record for the Floresta da Tijuca sector. Kempf (1972) recorded it from the Serra da Carioca sector.

### *Nylanderia docilis* (Forel, 1908)

#### Materials

- a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *docilis*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.1S 43 16 59.0W; verbatimLatitude: 22 57 23.1S; verbatimLongitude: 43 16 59.0W;

verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 12; sex: female; lifeStage: adult; recordNumber: WBC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia docilis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C2421B45-534A-5390-8E4E-75EF9FC8F661

- b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *docilis*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 23.9W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 22-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WCC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia docilis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3B3DB01F-2C70-562F-9C43-5B309426CB13

**Distribution:** Argentina, Brazil, Paraguay.

**Notes:** This is the first record for the PNT, which extends the known distribution eastwards.

## *Nylanderia fulva* (Mayr, 1862)

### Materials

- a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *fulva*; scientificNameAuthorship: (Mayr, 1862); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.1S 43 17 29.5W; verbatimLatitude: 22 56 43.1S; verbatimLongitude: 43 17 29.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia fulva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2A94E967-60C7-54CD-8508-3BC7E7654C0A
- b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *fulva*; scientificNameAuthorship: (Mayr, 1862); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.1S 43 16 59.0W; verbatimLatitude: 22 57 23.1S; verbatimLongitude: 43 16 59.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I.

R. S. Cordeiro; identificationID: *Nylanderia fulva*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 51021DAA-0C74-55BB-9298-91D2FA81D215

**Distribution:** Argentina, Brazil, Bolivia, Paraguay, Uruguay. Exotic in northern Brazil, the Canary Islands, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Galápagos Islands, Guyana, Hispaniola, Jamaica, Lesser Antilles, Mexico, Puerto Rico, Suriname, Trinidad and Tobago, United States and Venezuela. Introduced in Canada and France.

**Notes:** This is the first record for the PNT. Kempf (1972) and Brandão (1991) recorded this species from the State of Rio de Janeiro without details.

## ***Nylanderia goeldii* (Forel, 1912)**

### **Materials**

- a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *goeldii*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4DCCFCBE-1CB0-50FE-89DC-EEEE717ADEED
- b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *goeldii*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70AECECB-40A6-57A3-BA9A-198E10FF1B0F

**Distribution:** Endemic from south-eastern Brazil.

**Notes:** This is the first record for the PNT. Previously recorded by Kempf (1972) from the State of Rio de Janeiro without details.



***Nylanderia guatemalensis* (Forel, 1885)****Materials**

- a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *guatemalensis*;  
 scientificNameAuthorship: (Forel, 1885); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.7S 43 17 33.1W; verbatimLatitude: 22 56 47.7S;  
 verbatimLongitude: 43 17 33.1W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex:  
 female; lifeStage: adult; recordNumber: WAC105; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia guatemalensis*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 97098107-A66D-5809-8BDB-7B87B957FC2B
- b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *guatemalensis*;  
 scientificNameAuthorship: (Forel, 1885); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 23.7S 43 16 59.7W; verbatimLatitude: 22 57 23.7S;  
 verbatimLongitude: 43 16 59.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex:  
 female; lifeStage: adult; recordNumber: PBC106; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia guatemalensis*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 747E7ACE-8B08-5E98-9623-D68E2DB83B11

**Distribution:** Belize, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Honduras, Mexico, Nicaragua, Panama, Venezuela. Exotic in northern Mexico, south-eastern United States, Bahamas, Cocos Island, Cuba, Galápagos Islands, Hispaniola, Jamaica, Lesser Antilles and Trinidad and Tobago. Introduced to mid-western United States, Germany, Netherlands and the United Kingdom. Records from south-western United States and the State of Sonora (Mexico) need verification.

**Notes:** This is the first record for the Floresta da Tijuca sector. This species was recorded by Santos et al. (2019) from the Reserva Florestal da Vista Chinesa, in the Serra da Carioca sector.

***Nylanderia steinheili* (Forel, 1893)****Materials**

- a. taxonRank: species; genus: *Nylanderia*; specificEpithet: *steinheili*;  
 scientificNameAuthorship: (Forel, 1893); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S;  
 verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds;

- verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia steinheili*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 775FE0BD-78E6-52AC-A43E-69AC2A6A2CF7
- b. taxonRank: species; genus: *Nylanderia*; specificEpithet: *steinheili*; scientificNameAuthorship: (Forel, 1893); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.4S 43 16 56.7W; verbatimLatitude: 22 57 24.4S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: WBS107; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia steinheili*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F3A73076-3206-5B39-9611-D1FE155A3D81
- c. taxonRank: species; genus: *Nylanderia*; specificEpithet: *steinheili*; scientificNameAuthorship: (Forel, 1893); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.2S 43 17 23.9W; verbatimLatitude: 22 57 42.2S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCC106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Nylanderia steinheili*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 941A9A40-276A-52DD-8B79-B8F3AAF3DFC9

**Distribution:** Brazil, Colombia, Costa Rica, French Guiana, Guatemala, Honduras, Mexico, Nicaragua, Panama, Venezuela. Exotic in Argentina, Bahamas, Cuba, Galápagos Islands, Hispaniola, Jamaica, Lesser Antilles, Seychelles and the United States. Introduced to Norway, United Kingdom and the Netherlands.

**Notes:** This is the first record for the PNT. Previously recorded by Kempf (1972) and Brandão (1991) from the State of Rio de Janeiro without details.

## Subfamily Myrmicinae Lepeletier de Saint-Fargeau, 1835

### *Acanthognathus brevicornis* Smith, 1944

#### Materials

- a. taxonRank: species; genus: *Acanthognathus*; specificEpithet: *brevicornis*; scientificNameAuthorship: Smith, 1944; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);

verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S;  
 verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex:  
 female; lifeStage: adult; recordNumber: WAC120; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acanthognathus brevicornis*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 36B393FE-6EFB-50A4-9432-C574598F842B

- b. taxonRank: species; genus: *Acanthognathus*; specificEpithet: *brevicornis*;  
 scientificNameAuthorship: Smith, 1944; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S;  
 verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 9; sex: female;  
 lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
 J. C. Santos, I. R. S. Cordeiro; identificationID: *Acanthognathus brevicornis*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 53C8A2B1-AC95-525E-B9D2-A1B49EBC4FDE

**Distribution:** Brazil, Colombia, Ecuador, French Guiana, Guyana, Panama, Peru.

**Notes:** This is the first record for the PNT. Silva and Brandão (2014) and Montine et al. (2014) recorded this species from other protected areas in the State of Rio de Janeiro.

## *Acromyrmex brunneus* (Forel, 1912)

### Materials

- a. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *brunneus*;  
 scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 23.5S 43 17 00.1W; verbatimLatitude: 22 57 23.5S;  
 verbatimLongitude: 43 17 00.1W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female;  
 lifeStage: adult; recordNumber: WBS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex brunneus*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: D44986DB-D220-57C8-83B3-4C687DE8D4E8
- b. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *brunneus*;  
 scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S;  
 verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;

verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex brunneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70B1A979-4199-59E1-89A7-CB778484EA9C

**Distribution:** Brazil, Paraguay.

**Notes:** Previously recorded from "Floresta da Tijuca" by Gonçalves (1961) and from the Serra da Carioca sector by Santos et al. (2019).

## *Acromyrmex molestans* Santschi, 1925

### Materials

- a. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *molestans*; scientificNameAuthorship: Santschi, 1925; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.6S 43 17 30.1W; verbatimLatitude: 22 56 43.6S; verbatimLongitude: 43 17 30.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAC118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex molestans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CE69AE08-CF7C-5F01-A4F7-E04E85DC7DD7
- b. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *molestans*; scientificNameAuthorship: Santschi, 1925; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 24.5S 43 16 56.7W; verbatimLatitude: 22 57 24.5S; verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex molestans*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 445672E5-A794-5595-A3A5-2B9AD755AEF1
- c. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *molestans*; scientificNameAuthorship: Santschi, 1925; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.9S 43 17 24.0W; verbatimLatitude: 22 57 41.9S; verbatimLongitude: 43 17 24.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PCC114; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex molestans*;

identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6D42D8FA-6069-5F4C-9E18-5299BA8A2B72

**Distribution:** Endemic from Brazil.

**Notes:** This is the first record for the PNT. First reported from the State of Rio de Janeiro by Santschi (1937).

## *Acromyrmex subterraneus* (Forel, 1912)

### Materials

- a. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *subterraneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex subterraneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 25A7C37F-0039-5457-9379-C09329109724
- b. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *subterraneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.8S 43 17 00.5W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 17 00.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PBC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex subterraneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F434B81B-43DA-54D4-8DA1-FA710299B16E
- c. taxonRank: species; genus: *Acromyrmex*; specificEpithet: *subterraneus*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.2S 43 17 24.3W; verbatimLatitude: 22 57 41.2S; verbatimLongitude: 43 17 24.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: PCC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Acromyrmex subterraneus*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 8E1DB942-30BD-5E2E-8F1D-861B5F8C665B

**Distribution:** Argentina, Bolivia, Brazil, Colombia, French Guiana, Paraguay, Peru, Venezuela.

**Notes:** This is the first record for the PNT. First record from the State of Rio de Janeiro by Gonçalves (1961).

## *Apterostigma ierense* Weber, 1937

### Material

- a. **taxonRank:** species; **genus:** *Apterostigma*; **specificEpithet:** *ierense*; **scientificNameAuthorship:** Weber, 1937; **continent:** South America; **country:** Brazil; **countryCode:** BR; **stateProvince:** Rio de Janeiro; **municipality:** Rio de Janeiro; **locality:** Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); **verbatimCoordinates:** 22 56 46.2S 43 17 32.7W; **verbatimLatitude:** 22 56 46.2S; **verbatimLongitude:** 43 17 32.7W; **verbatimCoordinateSystem:** degrees minutes seconds; **verbatimSRS:** WGS84; **samplingProtocol:** Winckler; **year:** 2022; **month:** 1; **day:** 21-23; **verbatimEventDate:** Summer 2022; **habitat:** Atlantic Forest; **individualCount:** 1; **sex:** female; **lifeStage:** adult; **recordNumber:** WCC115; **recordedBy:** M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; **identificationID:** *Apterostigma ierense*; **identifiedBy:** M. M. Silva; **type:** PhysicalObject; **institutionCode:** CEIOC; **basisOfRecord:** PreservedSpecimen; **occurrenceID:** 05BD488F-BDAB-5C4A-B099-2B1F18CF71B5

**Distribution:** Bolivia, Brazil, Colombia, Ecuador, French Guiana, Panama, Peru, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for the State of Rio de Janeiro, filling a gap between Bahia to the north and São Paulo to the south.

## *Apterostigma pilosum* Mayr, 1865

### Materials

- a. **taxonRank:** species; **genus:** *Apterostigma*; **specificEpithet:** *pilosum*; **scientificNameAuthorship:** Mayr, 1865; **continent:** South America; **country:** Brazil; **countryCode:** BR; **stateProvince:** Rio de Janeiro; **municipality:** Rio de Janeiro; **locality:** Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); **verbatimCoordinates:** 22 56 48.2S 43 17 29.8W; **verbatimLatitude:** 22 56 48.2S; **verbatimLongitude:** 43 17 29.8W; **verbatimCoordinateSystem:** degrees minutes seconds; **verbatimSRS:** WGS84; **samplingProtocol:** Winckler; **year:** 2021; **month:** 7; **day:** 19-21; **verbatimEventDate:** Winter 2021; **habitat:** Atlantic Forest; **individualCount:** 7; **sex:** female; **lifeStage:** adult; **recordNumber:** WAS104; **recordedBy:** M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; **identificationID:** *Apterostigma pilosum*; **identifiedBy:** M. M. Silva; **type:** PhysicalObject; **institutionCode:** CEIOC; **basisOfRecord:** PreservedSpecimen; **occurrenceID:** CFBA32E8-2BE8-584D-BF37-37AF4F9079B2
- b. **taxonRank:** species; **genus:** *Apterostigma*; **specificEpithet:** *pilosum*; **scientificNameAuthorship:** Mayr, 1865; **continent:** South America; **country:** Brazil; **countryCode:** BR; **stateProvince:** Rio de Janeiro; **municipality:** Rio de Janeiro; **locality:** Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); **verbatimCoordinates:** 22 57 23.2S 43 16 57.7W; **verbatimLatitude:** 22 57 23.2S;

verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: PBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Apterostigma pilosum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C4C00D05-4518-5EFC-BEEE-9B89B26C7926

- c. taxonRank: species; genus: *Apterostigma*; specificEpithet: *pilosum*;  
scientificNameAuthorship: Mayr, 1865; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 39.8S 43 17 30.9W; verbatimLatitude: 22 57 39.8S; verbatimLongitude: 43 17 30.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WCS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Apterostigma pilosum*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 77B1442F-3414-5A42-95D4-74743F5A8921

**Distribution:** Argentina, Belize, Brazil, Colombia, Costa Rica, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for PNT. Previously recorded by Kempf (1972) and Brandão (1991) from the State of Rio de Janeiro without details.

## ***Basiceros disciger* (Mayr, 1887)**

### **Material**

- a. taxonRank: species; genus: *Basiceros*; specificEpithet: *disciger*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.5S 43 17 35.3W; verbatimLatitude: 22 56 48.5S; verbatimLongitude: 43 17 35.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Basiceros disciger*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B44371AF-FBC2-59F7-81F2-66048013B057

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Peru, Venezuela. The record from Costa Rica needs verification.

**Notes:** This is the first record for the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) from the Reserva Florestal da Vista Chinesa, within the Serra da Carioca sector.

## *Cardiocondyla minutior* Forel, 1899

### Material

- a. taxonRank: species; genus: *Cardiocondyla*; specificEpithet: *minutior*;  
 scientificNameAuthorship: Forel, 1899; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 48.3S 43 17 32.2W; verbatimLatitude: 22 56 48.3S;  
 verbatimLongitude: 43 17 32.2W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex:  
 female; lifeStage: adult; recordNumber: WAC103; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cardiocondyla minutior*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: C4D3254B-1CF7-5634-8B6E-786C6715E91E

**Native status:** Exotic (Brazil)

**Distribution:** Native in the Oriental Region (Andaman and Nicobar Islands, continental India, Nepal, Sri Lanka, Vietnam). Exotic in the Australian, Madagascan, Nearctic, Neotropical, Oceanian, Panamanian, Saharo-Arabian and Sino-Japanese Regions, including Brazil.

**Notes:** This is the first record for the State of Rio de Janeiro, filling a gap between Minas Gerais and Espírito Santo to the north and Santa Catarina to the south.

## *Carebara brevipilosa* Fernández, 2004

### Material

- a. taxonRank: species; genus: *Carebara*; specificEpithet: *brevipilosa*;  
 scientificNameAuthorship: Fernández, 2004; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S;  
 verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex:  
 female; lifeStage: adult; recordNumber: WBS109; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Carebara brevipilosa*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: F7C529EC-C5E0-5799-BB5C-7A26F3F04E02

**Distribution:** Argentina, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guyana, Honduras, Mexico, Nicaragua, Panama, Suriname, Venezuela.

**Notes:** This is the first record for PNT. This species was recorded by de Oliveira et al. (2018) from another protected area in the State of Rio de Janeiro.



***Crematogaster montana* Borgmeier, 1939****Material**

- a. taxonRank: species; genus: *Crematogaster*; specificEpithet: *montana*;  
 scientificNameAuthorship: Borgmeier, 1939; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 48.1S 43 17 31.7W; verbatimLatitude: 22 56 48.1S;  
 verbatimLongitude: 43 17 31.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
 female; lifeStage: adult; recordNumber: PAC119; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Crematogaster montana*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: EDD0B456-3F7A-56C6-AE01-93F7C2CEB6F1

**Distribution:** Endemic from the State of Rio de Janeiro.

**Notes:** This is the first record for PNT. Previously known only from the Municipality of Petrópolis, located approximately 70 km north of Rio de Janeiro.

***Crematogaster nigropilosa* Mayr, 1870****Material**

- a. taxonRank: species; genus: *Crematogaster*; specificEpithet: *nigropilosa*;  
 scientificNameAuthorship: Mayr, 1870; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 40.8S 43 17 29.2W; verbatimLatitude: 22 57 40.8S;  
 verbatimLongitude: 43 17 29.2W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WCS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
 J. C. Santos, I. R. S. Cordeiro; identificationID: *Crematogaster nigropilosa*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 1544B139-8F9C-5DC5-94C6-3DF538CB2725

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for the Floresta da Tijuca sector. This species was recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

## *Cyphomyrmex minutus* Mayr, 1862

### Materials

- a. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *minutus*;  
scientificNameAuthorship: Mayr, 1862; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 47.5S 43 17 31.2W; verbatimLatitude: 22 56 47.5S;  
verbatimLongitude: 43 17 31.2W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: WAS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex minutus*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 6F3E224A-F062-5823-8DD0-29B41338C71D
- b. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *minutus*;  
scientificNameAuthorship: Mayr, 1862; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S;  
verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex minutus*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: F1F80378-A91E-5316-97B0-A88B2E1334B3
- c. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *minutus*;  
scientificNameAuthorship: Mayr, 1862; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 42.4S 43 17 23.8W; verbatimLatitude: 22 57 42.4S;  
verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female;  
lifeStage: adult; recordNumber: WCS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex minutus*; identifiedBy: M.  
M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 748FF94B-9E05-56F7-89C0-C070E256356F

**Distribution:** Argentina, Bahamas, Bolivia, Brazil, Colombia, Costa Rica, Cuba, French Guiana, Guatemala, Guyana, Hispaniola, Honduras, Jamaica, Lesser Antilles, Mexico, Panama, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, United States, Venezuela.

**Notes:** This is the first record for the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) from the Reserva Florestal da Vista Chinesa, within the Serra da Carioca sector.

## *Cyphomyrmex rimosus* (Spinola, 1851)

### Materials

- a. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *rimosus*;  
scientificNameAuthorship: (Spinola, 1851); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 46.3S 43 17 30.3W; verbatimLatitude: 22 56 46.3S;  
verbatimLongitude: 43 17 30.3W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-19;  
verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 3; sex:  
female; lifeStage: adult; recordNumber: PAC101; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex rimosus*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 235A9FCF-95A8-53CF-A9B7-01810A750007
- b. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *rimosus*;  
scientificNameAuthorship: (Spinola, 1851); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S;  
verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female;  
lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex rimosus*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 06DC9D8E-5887-501B-8FB7-F460C3566D27
- c. taxonRank: species; genus: *Cyphomyrmex*; specificEpithet: *rimosus*;  
scientificNameAuthorship: (Spinola, 1851); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S;  
verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex:  
female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Cyphomyrmex rimosus*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: EACE329D-5FD3-5920-B991-82CFB8BB8C18

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, French Guiana, Guatemala, Guyana, Hispaniola, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, Uruguay, Venezuela. Exotic in the Galápagos Islands and southeast and southwest United States. Introduced in Hawaii. Records from the States of Arizona, California and Michigan (United States) are dubious.

**Notes:** This is the first record for the Floresta da Tijuca sector. This species was recorded by Santos et al. (2019) from the Rio de Janeiro Botanical Garden and the Parque Lage, within the Serra da Carioca sector.

## *Hylomyrma reitteri* (Mayr, 1887)

### Materials

- a. taxonRank: species; genus: *Hylomyrma*; specificEpithet: *reitteri*;  
scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S;  
verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex:  
female; lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hylomyrma reitteri*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: E9AE839C-A942-55EA-91B7-88123A3E9C4C
- b. taxonRank: species; genus: *Hylomyrma*; specificEpithet: *reitteri*;  
scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S;  
verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex:  
female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hylomyrma reitteri*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 87A7A64C-7359-5B57-8C46-1AA835FA2ADC
- c. taxonRank: species; genus: *Hylomyrma*; specificEpithet: *reitteri*;  
scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S;  
verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 10; sex:  
female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hylomyrma reitteri*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: F8BE1B98-456B-53B6-94F6-3E3FE80207B3

**Distribution:** Argentina, Brazil, Colombia, Paraguay, Venezuela.

**Notes:** Kempf (1960) recorded this species from "Floresta da Tijuca" without details.

***Lachnomyrmex plaumanni* Borgmeier, 1957****Material**

- a. taxonRank: species; genus: *Lachnomyrmex*; specificEpithet: *plaumanni*;  
 scientificNameAuthorship: Borgmeier, 1957; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S;  
 verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WAS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Lachnomyrmex plaumanni*; identifiedBy: M.  
 M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 0ED888EB-36F7-55D0-B472-F1D1478B2258

**Distribution:** Argentina, Brazil. The record from the State of Pará (Brazil) is dubious, while those from Costa Rica need verification.

**Notes:** This is the first record for the PNT. This species was recorded by Feitosa and Brandão (2008) and Orsolon-Souza et al. (2011) from the Reserva Biológica do Tinguá, another protected area in the State of Rio de Janeiro.

***Megalomyrmex goeldii* Forel, 1912****Materials**

- a. taxonRank: species; genus: *Megalomyrmex*; specificEpithet: *goeldii*;  
 scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.7S 43 17 33.1W; verbatimLatitude: 22 56 47.7S;  
 verbatimLongitude: 43 17 33.1W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 8; sex:  
 female; lifeStage: adult; recordNumber: WAC115; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Megalomyrmex goeldii*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 57BA11A7-E51C-5E5D-B072-C5C127E2DA08
- b. taxonRank: species; genus: *Megalomyrmex*; specificEpithet: *goeldii*;  
 scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 30.2S 43 16 57.17W; verbatimLatitude: 22 57  
 30.2S; verbatimLongitude: 43 16 57.17W; verbatimCoordinateSystem: degrees minutes  
 seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day:  
 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 20; sex:  
 female; lifeStage: adult; recordNumber: WBS116; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Megalomyrmex goeldii*;

- identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4C1EE0B1-85CB-5EA8-911F-94898884BF38
- c. taxonRank: species; genus: *Megalomyrmex*; specificEpithet: *goeldii*; scientificNameAuthorship: Forel, 1912; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Megalomyrmex goeldii*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1F7C5AF3-A562-56BB-A97D-5486968838F3

**Distribution:** Endemic from Brazil.

**Notes:** Brandão (1990) recorded this species from "Floresta da Tijuca" without details.

### ***Mycetomoellerius oetkeri* (Forel, 1908)**

#### **Material**

- a. taxonRank: species; genus: *Mycetomoellerius*; specificEpithet: *oetkeri*; scientificNameAuthorship: (Forel, 1908); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 26.2S 43 16 55.2W; verbatimLatitude: 22 57 26.2S; verbatimLongitude: 43 16 55.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: PBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Mycetomoellerius oetkeri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CF335390-014A-521F-BE45-EB20FC102C21

**Distribution:** Endemic from Brazil.

**Notes:** This is the first record for the PNT. This species was recorded by Kempf (1972) from the State of Rio de Janeiro without details.

### ***Octostruma iheringi* (Emery, 1888)**

#### **Material**

- a. taxonRank: species; genus: *Octostruma*; specificEpithet: *iheringi*; scientificNameAuthorship: (Emery, 1888); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.5S 43 17 29.9W; verbatimLatitude: 22 57 40.5S; verbatimLongitude: 43 17 29.9W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma iheringi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B0C4731D-4CD6-59AD-B72C-0C1F80F22E9E

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Jamaica, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela. Records from the United States are dubious.

**Notes:** Brown and Kempf (1960) recorded this species from the "Floresta da Tijuca" without details.

## *Octostruma rugifera* (Mayr, 1887)

### Materials

- a. taxonRank: species; genus: *Octostruma*; specificEpithet: *rugifera*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.5S 43 17 35.3W; verbatimLatitude: 22 56 48.5S; verbatimLongitude: 43 17 35.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma rugifera*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 98B9AAA0-2B7E-5626-BDA4-142B65DC5354
- b. taxonRank: species; genus: *Octostruma*; specificEpithet: *rugifera*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma rugifera*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3BEF370A-42F7-5089-A38E-A2CEBF60F832
- c. taxonRank: species; genus: *Octostruma*; specificEpithet: *rugifera*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.4S 43 17 24.5W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 24.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25;

verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 13; sex: female; lifeStage: adult; recordNumber: PCS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Octostruma rugifera*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9F148668-130E-5FBE-A669-EAA2AE1FE8B9

**Distribution:** Argentina, Brazil, Colombia, Panama, Paraguay, San Andrés, Providencia and Santa Catalina, Venezuela.

**Notes:** Brown and Kempf (1960) recorded this species from "Floresta da Tijuca" without details.

## ***Oxyepoecus myops* Albuquerque & Brandão, 2009**

### **Material**

- a. taxonRank: species; genus: *Oxyepoecus*; specificEpithet: *myops*; scientificNameAuthorship: Albuquerque & Brandão, 2009; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.3S 43 17 32.2W; verbatimLatitude: 22 56 48.3S; verbatimLongitude: 43 17 32.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Oxyepoecus myops*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3AA3134E-C79F-5FB8-8B46-0E9F9618D102

**Distribution:** Endemic from Brazil.

**Notes:** This is the first record for PNT. This species was recorded by Albuquerque and Brandão (2009) and Lasmar et al. (2020) from other protected areas in the State of Rio de Janeiro, such as the Parque Nacional da Serra dos Órgãos and the Reserva Biológica do Tinguá.

## ***Pheidole tijuana* Borgmeier, 1927**

### **Materials**

- a. taxonRank: species; genus: *Pheidole*; specificEpithet: *tijuana*; scientificNameAuthorship: Borgmeier, 1927; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 30.0W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 30.0W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pheidole tijuana*; identifiedBy: M.



- M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A3A8C96B-4D1D-5016-B719-287BCE1862F4
- b. taxonRank: species; genus: *Pheidole*; specificEpithet: *tijucana*; scientificNameAuthorship: Borgmeier, 1927; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 28.5S 43 16 57.5W; verbatimLatitude: 22 57 28.5S; verbatimLongitude: 43 16 57.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBC119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pheidole tijucana*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1B3A5A8E-8A1B-568E-8DF6-4821C346B91F

**Distribution:** Endemic from eastern Brazil.

**Notes:** "Floresta da Tijuca" is the type locality provided by Borgmeier (1927).

### *Rogeria lacertosa* Kempf, 1963

#### Material

- a. taxonRank: species; genus: *Rogeria*; specificEpithet: *lacertosa*; scientificNameAuthorship: Kempf, 1963; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 49.3S 43 17 29.1W; verbatimLatitude: 22 56 49.3S; verbatimLongitude: 43 17 29.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 19-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Rogeria lacertosa*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 8DC9FE27-08EE-51AB-B8D7-7835D7CAB285

**Distribution:** Endemic from eastern Brazil.

**Notes:** This is the first record for State of Rio de Janeiro, contributing to fill a gap between Bahia to the north and Rio Grande do Sul to the south.

### *Sericomyrmex bondari* Weber, 1938

#### Material

- a. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *bondari*; scientificNameAuthorship: Weber, 1938; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 23.7S 43 16 59.4W; verbatimLatitude: 22 57 23.7S; verbatimLongitude: 43 16 59.4W; verbatimCoordinateSystem: degrees minutes seconds;

verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PBC108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex bondari*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C2803CAA-3EE9-56C1-B171-F15C22F5CE81

**Distribution:** Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Peru, Suriname, Venezuela.

**Notes:** This is the first record for PNT. Klingenberg and Brandão (2005) recorded this species from the State of Rio de Janeiro without details.

## *Sericomyrmex saussurei* Emery, 1894

### Materials

- a. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *saussurei*; scientificNameAuthorship: Emery, 1894; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S; verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS118; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex saussurei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 3DC14678-E720-50FD-B55B-1EEE65A8B7AA
- b. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *saussurei*; scientificNameAuthorship: Emery, 1894; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 30.0S 43 16 58.3W; verbatimLatitude: 22 57 30.0S; verbatimLongitude: 43 16 58.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: WBS120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex saussurei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6AD9B191-70BD-5D68-942C-0337128E2E1F
- c. taxonRank: species; genus: *Sericomyrmex*; specificEpithet: *saussurei*; scientificNameAuthorship: Emery, 1894; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 27.2W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 27.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WCS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes,

J. C. Santos, I. R. S. Cordeiro; identificationID: *Sericomyrmex saussurei*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6126D637-A6BC-5E06-A338-C7B3753008E9

**Distribution:** Bolivia, Brazil, Colombia, Ecuador, Guyana, Lesser Antilles, Peru, Trinidad and Tobago, Venezuela. Records from Mexico need verification.

**Notes:** This is the first record for PNT. Ješovnik and Schultz (2017) recorded this species from the Reserva Biológica do Tinguá and the Parque Nacional da Serra dos Órgãos, which are protected areas in the State of Rio de Janeiro.

## *Strumigenys cosmostela* Kempf, 1975

### Material

- a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *cosmostela*; scientificNameAuthorship: Kempf, 1975; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 27.2W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 27.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys cosmostela*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 1F70D215-63C8-5700-8656-F86F42DA7857

**Distribution:** Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Peru, Suriname, Venezuela.

**Notes:** This is the first record for PNT. This species was recorded by Silva and Brandão (2014) from the Parque Estadual do Desengano, another protected area in the State of Rio de Janeiro.

## *Strumigenys crassicornis* Mayr, 1887

### Material

- a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *crassicornis*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.8S 43 17 33.6W; verbatimLatitude: 22 56 46.8S; verbatimLongitude: 43 17 33.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WAS116; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys crassicornis*; identifiedBy: M. M.

Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 21042D28-B588-530E-854D-9EB340221E0B

**Distribution:** Argentina, Brazil, Colombia, French Guiana, Guyana, Lesser Antilles, Paraguay, Suriname, Trinidad and Tobago, Venezuela.

**Notes:** Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

## ***Strumigenys denticulata* Mayr, 1887**

### **Materials**

- a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *denticulata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S; verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: WAS103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys denticulata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6B57A8F8-8D68-5F59-A686-B75A2AEB0BAE
- b. taxonRank: species; genus: *Strumigenys*; specificEpithet: *denticulata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 24; sex: female; lifeStage: adult; recordNumber: WBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys denticulata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 67AD10AD-BF5F-5352-81EC-7721A5FD19BB
- c. taxonRank: species; genus: *Strumigenys*; specificEpithet: *denticulata*; scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S; verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys denticulata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 7A27B2FD-EAB2-52F1-BBBF-CB00B6193411

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Guyana, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela

**Notes:** Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

### ***Strumigenys elongata* Roger, 1863**

#### **Materials**

- a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *elongata*;  
scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 30.6S 43 16 58.1W; verbatimLatitude: 22 57 30.6S;  
verbatimLongitude: 43 16 58.1W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: WBS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys elongata*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: DF96EB89-E9A9-5C22-A01D-F73AD67320AD
- b. taxonRank: species; genus: *Strumigenys*; specificEpithet: *elongata*;  
scientificNameAuthorship: Roger, 1863; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 42.4S 43 17 26.9W; verbatimLatitude: 22 57 42.4S;  
verbatimLongitude: 43 17 26.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex:  
female; lifeStage: adult; recordNumber: WCC112; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys elongata*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: FDC26040-6211-5D3D-A6C0-D35D61005B0A

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, San Andrés, Providencia and Santa Catalina, Suriname, Trinidad and Tobago, Venezuela.

**Notes:** Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

### ***Strumigenys hindenburgi* Forel, 1915**

#### **Materials**

- a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *hindenburgi*;  
scientificNameAuthorship: Forel, 1915; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:

Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.9S 43 17 31.3W; verbatimLatitude: 22 56 47.9S;  
 verbatimLongitude: 43 17 31.3W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
 lifeStage: adult; recordNumber: WAS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys hindenburgi*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 49DCA430-4092-5731-BE24-D1DC0DCAAE99

- b. taxonRank: species; genus: *Strumigenys*; specificEpithet: *hindenburgi*;  
 scientificNameAuthorship: Forel, 1915; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 57 24.4S 43 16 56.7W; verbatimLatitude: 22 57 24.4S;  
 verbatimLongitude: 43 16 56.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WBS107; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys hindenburgi*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: 09614EF5-50C2-5527-834B-B4E2A161078E
- c. taxonRank: species; genus: *Strumigenys*; specificEpithet: *hindenburgi*;  
 scientificNameAuthorship: Forel, 1915; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S;  
 verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
 lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
 J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys hindenburgi*; identifiedBy: M.  
 M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 66FBE3E5-A777-508C-B11B-1BC5C079C98D

**Distribution:** Argentina, Brazil, Colombia, Paraguay.

**Notes:** This is the first record for PNT. This species was recorded by Bolton (2000) from the State of Rio de Janeiro without details.

## *Strumigenys subedentata* Mayr, 1887

### Material

- a. taxonRank: species; genus: *Strumigenys*; specificEpithet: *subedentata*;  
 scientificNameAuthorship: Mayr, 1887; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 41.6S 43 17 25.6W; verbatimLatitude: 22 57 41.6S;  
 verbatimLongitude: 43 17 25.6W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;

verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WCS106; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Strumigenys subdentata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2E04D618-1F19-5CEE-AD20-3CC0BD4696E5

**Distribution:** Argentina, Belize, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela.

**Notes:** Previously recorded from "Floresta da Tijuca" by Silva and Brandão (2014) without details.

## *Paratrachymyrmex cornetzi* (Forel, 1912)

### Material

- a. taxonRank: species; genus: *Paratrachymyrmex*; specificEpithet: *cornetzi*; scientificNameAuthorship: (Forel, 1912); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 37.0S 43 16 55.4W; verbatimLatitude: 22 57 37.0S; verbatimLongitude: 43 16 55.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Paratrachymyrmex cornetzi*; identifiedBy: A. J. Mayhé-Nunes; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: FAF514D9-DAA5-5B37-814B-EBC9BA4FA833

**Distribution:** Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Lesser Antilles, Mexico, Nicaragua, Panama, Peru, Suriname, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for Floresta da Tijuca sector. Previously recorded by Santos et al. (2019) from the Rio de Janeiro Botanical Garden, within the Serra da Carioca sector.

## *Wasmannia affinis* Santschi, 1929

### Materials

- a. taxonRank: species; genus: *Wasmannia*; specificEpithet: *affinis*; scientificNameAuthorship: Santschi, 1929; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 44.6S 43 17 32.1W; verbatimLatitude: 22 56 44.6S; verbatimLongitude: 43 17 32.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 5; sex:

- female; lifeStage: adult; recordNumber: WAC113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 6DC94746-716F-5348-A943-39C1E8A590C0
- b. taxonRank: species; genus: *Wasmannia*; specificEpithet: *affinis*; scientificNameAuthorship: Santschi, 1929; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WBS109; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 03469F9D-D075-5D24-B823-C1868FADD45E
- c. taxonRank: species; genus: *Wasmannia*; specificEpithet: *affinis*; scientificNameAuthorship: Santschi, 1929; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 42.4S 43 17 23.8W; verbatimLatitude: 22 57 42.4S; verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B6BA0D36-0F76-5117-9F8E-F14B88BC70EF

**Distribution:** Endemic from eastern Brazil.

**Notes:** This is the first record for PNT. Previously recorded by Lasmar et al. (2020) from another protected area in the State of Rio de Janeiro.

## ***Wasmannia auropunctata* (Roger, 1863)**

### **Material**

- a. taxonRank: species; genus: *Wasmannia*; specificEpithet: *auropunctata*; scientificNameAuthorship: (Roger, 1863); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.9S 43 17 23.3W; verbatimLatitude: 22 57 41.9S; verbatimLongitude: 43 17 23.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: PCS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia auropunctata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C1D2B3F1-D9E7-5967-94FF-BBDF8822C86C



**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Nicaragua, Panama, Paraguay, Peru, Suriname, Uruguay, Venezuela. Introduced to Canada, midwest United States, Germany, United Kingdom, the Netherlands and New Zealand. Exotic in portions of the Afrotropical, Australian, Nearctic, Neotropical, Oceanian, Oriental, Palearctic, Panamanian, Saharo-Arabian and Sino-Japanese Regions. Records from the State of Arizona (United States), South Africa, Keeling Islands, Indonesia, New Guinea and Cook Islands need verification. Records from continental Italy and Tuvalu are dubious.

**Notes:** This is the first record for Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) and Santos et al. (2019) from the Rio de Janeiro Botanical Garden and the Reserva Florestal da Vista Chinesa, both in the Serra da Carioca sector.

## *Wasmannia lutzi* Forel, 1908

### Materials

- a. taxonRank: species; genus: *Wasmannia*; specificEpithet: *lutzi*; scientificNameAuthorship: Forel, 1908; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.2S 43 17 35.4W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 35.4W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia lutzi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: EB564B31-1F53-51EC-B300-84961122D0C0
- b. taxonRank: species; genus: *Wasmannia*; specificEpithet: *lutzi*; scientificNameAuthorship: Forel, 1908; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 23.8S 43 16 57.7W; verbatimLatitude: 22 57 23.8S; verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 7; sex: female; lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Wasmannia lutzi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 58CA40CB-034D-5BE8-B5C9-5FFDEE099605

**Distribution:** Brazil, Paraguay.

**Notes:** This is the first record for the PNT. Previously recorded by Orsolon-Souza et al. (2011) and Silva and Brandão (2014) from other protected areas in the state of Rio de Janeiro.

## Subfamily Pseudomyrmicinae Smith, M.R., 1952

### *Pseudomyrmex schuppi* (Forel, 1901)

#### Material

- a. taxonRank: species; genus: *Pseudomyrmex*; specificEpithet: *schuppi*; scientificNameAuthorship: (Forel, 1901); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 2.0S 43 16 59.5W; verbatimLatitude: 22 57 2.0S; verbatimLongitude: 43 16 59.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-20; verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PBC105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pseudomyrmex schuppi*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 4396E676-7171-5E49-A377-6B3B77123D04

**Distribution:** Argentina, Brazil, Paraguay, Uruguay.

**Notes:** This is the first record for Floresta da Tijuca sector. Ward (1989) and Santos et al. (2019) recorded this species from the Corcovado Mountain, in the Serra da Carioca sector.

## Subfamily Ponerinae Lepeletier de Saint-Fargeau, 1835

### *Anochetus mayri* Emery, 1884

#### Materials

- a. taxonRank: species; genus: *Anochetus*; specificEpithet: *mayri*; scientificNameAuthorship: Emery, 1884; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: WAC120; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Anochetus mayri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2FF51B11-A98D-53B8-A532-DB1F6DD08229
- b. taxonRank: species; genus: *Anochetus*; specificEpithet: *mayri*; scientificNameAuthorship: Emery, 1884; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S; verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84;

samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: WBS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Anochetus mayri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A1F78F9B-C980-54DD-8D3D-B0D67E8CBE54

**Distribution:** Argentina, Bahamas, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Hispaniola, Honduras, Jamaica, Lesser Antilles, Mexico, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Suriname, Trinidad and Tobago, Uruguay, Venezuela. Exotic in southeast United States. Introduced to the United Kingdom and Denmark.

**Notes:** This is the first record for Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

## *Hypoponera distinguenda* (Emery, 1890)

### Materials

- a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *distinguenda*; scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 48.5S 43 17 35.3W; verbatimLatitude: 22 56 48.5S; verbatimLongitude: 43 17 35.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WAS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera distinguenda*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: DBBF66B6-0158-5AEA-A8BC-324694D90CDA
- b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *distinguenda*; scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S; verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WCC110; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera distinguenda*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 7B2AAFA4-A612-5314-978C-5059EAB88591

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for PNT. This species was previously recorded by Kempf (1972) from the State of Rio de Janeiro without details.

## *Hypoponera foreli* (Mayr, 1887)

### Materials

- a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *foreli*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 44.0S 43 17 31.2W; verbatimLatitude: 22 56 44.0S; verbatimLongitude: 43 17 31.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WAC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera foreli*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 9BD524D6-8DEA-5416-826C-6EF65DE3BBF6
- b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *foreli*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 26.8S 43 16 55.5W; verbatimLatitude: 22 57 26.8S; verbatimLongitude: 43 16 55.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female; lifeStage: adult; recordNumber: WBS111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera foreli*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B6145AE8-05ED-58E7-A3F4-82BB0FA42CBA
- c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *foreli*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 41.6S 43 17 27.2W; verbatimLatitude: 22 57 41.6S; verbatimLongitude: 43 17 27.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 9; sex: female; lifeStage: adult; recordNumber: WCS108; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera foreli*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: B31B3F4C-3407-5028-ACE3-15B3C6895434

**Distribution:** Argentina, Bolivia, Brazil, Costa Rica, Ecuador, Paraguay, Peru, Venezuela.

**Notes:** This is the first record for Floresta da Tijuca sector. Previously recorded by Santos et al. (2019) from the Serra da Carioca sector.

***Hypoponera leveillei* (Emery, 1890)****Materials**

- a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *leveillei*;  
 scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 48.2S 43 17 35.4W; verbatimLatitude: 22 56 48.2S;  
 verbatimLongitude: 43 17 35.4W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
 lifeStage: adult; recordNumber: WAS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera leveillei*; identifiedBy: M. M.  
 Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
 occurrenceID: C8FAAEE9-FF61-53DD-8B5E-DEE772BB5E26
- b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *leveillei*;  
 scientificNameAuthorship: (Emery, 1890); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Moutain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 41.7S 43 17 24.7W; verbatimLatitude: 22 57 41.7S;  
 verbatimLongitude: 43 17 24.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 21-23;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
 female; lifeStage: adult; recordNumber: WCC108; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera leveillei*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 75D998F4-5A2F-5757-8D0E-E8734FDBABF8

**Distribution:** Bolivia, Brazil, Panama, Venezuela.

**Notes:** This is the first record for PNT. Previously recorded by Mackay and Mackay (2010) from the State of Rio de Janeiro without details.

***Hypoponera parva* (Forel, 1909)****Materials**

- a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *parva*;  
 scientificNameAuthorship: (Forel, 1909); continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 49.3S 43 17 29.1W; verbatimLatitude: 22 56 49.3S;  
 verbatimLongitude: 43 17 29.1W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 12; sex:  
 female; lifeStage: adult; recordNumber: WAS106; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera parva*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: F25DF1A7-52B3-55EF-9C99-98325BBCCCE7

- b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *parva*;  
scientificNameAuthorship: (Forel, 1909); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 57 23.8S 43 26 57.7W; verbatimLatitude: 22 57 23.8S;  
verbatimLongitude: 43 26 57.7W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 6; sex: female;  
lifeStage: adult; recordNumber: WBS105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera parva*; identifiedBy: M. M. Silva;  
type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 8735219A-9F11-574E-B761-04D3A29EBDD2
- c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *parva*;  
scientificNameAuthorship: (Forel, 1909); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S;  
verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female;  
lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera parva*; identifiedBy: M. M.  
Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen;  
occurrenceID: 82406CC3-A89B-5B0A-B5DD-7BCCF0B47E35

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Ecuador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, United States, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record for the State of Rio de Janeiro, which extends the known distribution eastwards.

## *Hypoponera trigona* (Mayr, 1887)

### Materials

- a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *trigona*;  
scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 56 48.4S 43 17 32.7W; verbatimLatitude: 22 56 48.4S;  
verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 18; sex:  
female; lifeStage: adult; recordNumber: WAC104; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera trigona*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 193B7721-DD2A-535D-9AB9-4E4B6A62E795
- b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *trigona*;  
scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil;

countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 8; sex: female; lifeStage: adult; recordNumber: WBS109; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera trigona*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: F8480DA7-FF47-562E-95E0-AF84C11E7C16

- c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *trigona*; scientificNameAuthorship: (Mayr, 1887); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 40.4S 43 17 28.1W; verbatimLatitude: 22 57 40.4S; verbatimLongitude: 43 17 28.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 14; sex: female; lifeStage: adult; recordNumber: WCS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera trigona*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 40B5BCC3-60C1-5A7E-828A-5AF81C7152DF

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Mexico, Panama, Peru, Paraguay. Exotic in the Easter Island. Records from Bahamas, Cuba, Lesser Antilles and the United States need verification. Records from Juan Fernandez Islands and Society Islands are dubious.

**Notes:** This species was recorded by Kempf (1962) from "Floresta da Tijuca" without details.

## *Hypoponera viri* (Santschi, 1923)

### Materials

- a. taxonRank: species; genus: *Hypoponera*; specificEpithet: *viri*; scientificNameAuthorship: (Santschi, 1923); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S; verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 11; sex: female; lifeStage: adult; recordNumber: WAS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera viri*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 767F8FCB-6985-5E6D-B168-425A99053566
- b. taxonRank: species; genus: *Hypoponera*; specificEpithet: *viri*; scientificNameAuthorship: (Santschi, 1923); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca,

- Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão);  
 verbatimCoordinates: 22 57 30.0S 43 16 58.3W; verbatimLatitude: 22 57 30.0S;  
 verbatimLongitude: 43 16 58.3W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 1; day: 17-20;  
 verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 6; sex:  
 female; lifeStage: adult; recordNumber: WBS120; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera viri*; identifiedBy: M.  
 M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 3EE4491A-8290-5004-BCD3-3B33DE164F27
- c. taxonRank: species; genus: *Hypoponera*; specificEpithet: *viri*; scientificNameAuthorship:  
 (Santschi, 1923); continent: South America; country: Brazil; countryCode: BR;  
 stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca,  
 Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; ;  
 verbatimCoordinates: 22 57 40.5S 43 17 29.9W; verbatimLatitude: 22 57 40.5S;  
 verbatimLongitude: 43 17 29.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 6; sex:  
 female; lifeStage: adult; recordNumber: WBS117; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Hypoponera viri*; identifiedBy: M.  
 M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: F71A1F37-ED2C-56C0-9215-0E61A9F9C68B

**Distribution:** Endemic from eastern Brazil.

**Notes:** This is the first record for the State of Rio de Janeiro, which extends the known distribution northwards.

## ***Leptogenys luederwaldti* Forel, 1913**

### **Materials**

- a. taxonRank: species; genus: *Leptogenys*; specificEpithet: *luederwaldti*;  
 scientificNameAuthorship: Forel, 1913; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.2S 43 17 30.3W; verbatimLatitude: 22 56 47.2S;  
 verbatimLongitude: 43 17 30.3W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex:  
 female; lifeStage: adult; recordNumber: PAC108; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Leptogenys luederwaldti*;  
 identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 545FF66F-0FD6-5C80-B3D6-181773D01F28
- b. taxonRank: species; genus: *Leptogenys*; specificEpithet: *luederwaldti*;  
 scientificNameAuthorship: Forel, 1913; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; ;  
 verbatimCoordinates: 22 57 42.1S 43 17 24.7W; verbatimLatitude: 22 57 42.1S;  
 verbatimLongitude: 43 17 24.7W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 23-25;



verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 4; sex: female; lifeStage: adult; recordNumber: PCC105; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Leptogenys luederwaldti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 084EFE36-A705-5993-8E08-772B6722AA64

**Distribution:** Endemic from eastern Brazil.

**Notes:** This is the first record for the PNT. This species was previously recorded by Kempf (1972) and Lattke (2011) from the Municipality of Petrópolis, located approximately 70 km north of Rio de Janeiro.

## *Neoponera verenae* (Forel, 1922)

### Materials

- a. taxonRank: species; genus: *Neoponera*; specificEpithet: *verenae*;  
scientificNameAuthorship: (Forel, 1922); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 57 42.6S 43 17 23.8W; verbatimLatitude: 22 57 42.6S;  
verbatimLongitude: 43 17 23.8W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex:  
female; lifeStage: adult; recordNumber: PCC103; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Neoponera verenae*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 26DCF324-DA07-5004-BD1B-DCA65B427DAF
- b. taxonRank: species; genus: *Neoponera*; specificEpithet: *verenae*;  
scientificNameAuthorship: (Forel, 1922); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 23.1S 43 16 57.9W; verbatimLatitude: 22 57 23.1S;  
verbatimLongitude: 43 16 57.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 23-25;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 6; sex:  
female; lifeStage: adult; recordNumber: PBS104; recordedBy: M. M. Silva, A. J. Mayhé  
Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Neoponera verenae*; identifiedBy:  
M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 57818E70-E847-5471-A32E-0F85B1726E98

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Venezuela.

**Notes:** This is the first record for the PNT. Previously recorded by Apolinário et al. (2019) from the State of Rio de Janeiro.

## *Odontomachus affinis* Guérin-Méneville, 1844

### Materials

- a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *affinis*;  
scientificNameAuthorship: Guérin-Méneville, 1844; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 41.8S 43 17 24.8W; verbatimLatitude: 22 57 41.8S; verbatimLongitude: 43 17 24.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 21-23; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAC103; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: C8F33033-D07D-57CE-B116-7DE2FBCFA76A
- b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *affinis*;  
scientificNameAuthorship: Guérin-Méneville, 1844; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/caminhinho da solidão); verbatimCoordinates: 22 56 48.4S 43 17 32.7W; verbatimLatitude: 22 56 48.4S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female; lifeStage: adult; recordNumber: PBC115; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 85FA713A-26DE-5C50-B9DE-53DDDDDF6E78C
- c. taxonRank: species; genus: *Odontomachus*; specificEpithet: *affinis*;  
scientificNameAuthorship: Guérin-Méneville, 1844; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 57 25.3S 43 16 56.2W; verbatimLatitude: 22 57 25.3S; verbatimLongitude: 43 16 56.2W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: WCC017; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus affinis*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 20A12A2B-0A12-5E5E-A0E6-EB286906CC12

**Distribution:** Brazil, Colombia, Guyana.

**Notes:** This is the first record for the PNT. Previously recorded by Kempf (1972) from the State of Rio de Janeiro without details.

***Odontomachus brunneus* (Patton, 1894)****Materials**

- a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *brunneus*;  
scientificNameAuthorship: (Patton, 1894); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
solidão); verbatimCoordinates: 22 56 46.8S 43 17 33.6W; verbatimLatitude: 22 56 46.8S;  
verbatimLongitude: 43 17 33.6W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: WBS111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus brunneus*; identifiedBy: M.  
M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 87D958DE-D8E7-5FEE-87A7-D0634FCCF44B
- b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *brunneus*;  
scientificNameAuthorship: (Patton, 1894); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 56 47.8S 43 17 30.4W; verbatimLatitude: 22 56 47.8S;  
verbatimLongitude: 43 17 30.4W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female;  
lifeStage: adult; recordNumber: WCS115; recordedBy: M. M. Silva, A. J. Mayhé Nunes,  
J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus brunneus*; identifiedBy: M.  
M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
PreservedSpecimen; occurrenceID: 1898AB55-379C-50BE-8225-6B937B47534C

**Distribution:** Mexico, United States. Introduced to the Netherlands. Most existing records throughout the Neotropical Region need verification.

**Notes:** This is the first record from the PNT. Previously recorded by Silva and Brandão (2014) from other protected areas in the State of Rio de Janeiro.

***Odontomachus chelifer* (Latreille, 1802)****Materials**

- a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *chelifer*;  
scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 57 42.0S 43 17 23.9W; verbatimLatitude: 22 57 42.0S;  
verbatimLongitude: 43 17 23.9W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female;  
lifeStage: adult; recordNumber: PAC111; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus chelifer*; identifiedBy: M. M.

- Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: CA07126C-95A0-5516-B232-CE6E6D8E1221
- b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *chelifer*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S; verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 3; sex: female; lifeStage: adult; recordNumber: PBS117; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus chelifer*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: AE736F2E-8C7F-55D9-896B-0DAC507C75DD
- c. taxonRank: species; genus: *Odontomachus*; specificEpithet: *chelifer*; scientificNameAuthorship: (Latreille, 1802); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 56 47.7S 43 17 33.1W; verbatimLatitude: 22 56 47.7S; verbatimLongitude: 43 17 33.1W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PCS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus chelifer*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 70F43E70-E844-5BAA-AB6F-3938F90AEA9A

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record from the Floresta da Tijuca sector. This species was recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

## *Odontomachus meinerti* Forel, 1905

### Materials

- a. taxonRank: species; genus: *Odontomachus*; specificEpithet: *meinerti*; scientificNameAuthorship: Forel, 1905; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 56 46.2S 43 17 32.7W; verbatimLatitude: 22 56 46.2S; verbatimLongitude: 43 17 32.7W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19; verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: PAC114; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus meinerti*;

- identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 67046DA2-8D2E-5251-9BE6-6BD2C1CE3E7F
- b. taxonRank: species; genus: *Odontomachus*; specificEpithet: *meinerti*;  
scientificNameAuthorship: Forel, 1905; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão);  
verbatimCoordinates: 22 56 48.2S 43 17 29.8W; verbatimLatitude: 22 56 48.2S;  
verbatimLongitude: 43 17 29.8W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 5; sex: female;  
lifeStage: adult; recordNumber: WBS119; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus meinerti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D2330F84-4B69-5835-B558-4079DB4DEB6F
- c. taxonRank: species; genus: *Odontomachus*; specificEpithet: *meinerti*;  
scientificNameAuthorship: Forel, 1905; continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
verbatimCoordinates: 22 57 23.2S 43 16 57.7W; verbatimLatitude: 22 57 23.2S;  
verbatimLongitude: 43 16 57.7W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 23-25;  
verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 3; sex: female;  
lifeStage: adult; recordNumber: WCS104; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Odontomachus meinerti*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 108BC928-4BED-510C-9898-843BD16CA1BD

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Venezuela.

**Notes:** This is the first record from the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) from the Serra da Carioca sector.

## ***Pachycondyla harpax* (Fabricius, 1804)**

### **Materials**

- a. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *harpax*;  
scientificNameAuthorship: (Fabricius, 1804); continent: South America; country: Brazil;  
countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
verbatimCoordinates: 22 57 27.0S 43 16 55.4W; verbatimLatitude: 22 57 27.0S;  
verbatimLongitude: 43 16 55.4W; verbatimCoordinateSystem: degrees minutes seconds;  
verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-21;  
verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: PAS202; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla harpax*;  
identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: D0556847-A556-5E03-9FD4-AB546ABBDB0B

- b. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *harpax*; scientificNameAuthorship: (Fabricius, 1804); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ camminho da solidão); verbatimCoordinates: 22 57 40.0S 43 17 28.5W; verbatimLatitude: 22 57 40.0S; verbatimLongitude: 43 17 28.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 19-21; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 2; sex: female; lifeStage: adult; recordNumber: WBS112; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla harpax*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: E175E677-7C91-58B0-9D61-55DBC7D9CA75
- c. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *harpax*; scientificNameAuthorship: (Fabricius, 1804); continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).; verbatimCoordinates: 22 56 45.6S 43 17 32.5W; verbatimLatitude: 22 56 45.6S; verbatimLongitude: 43 17 32.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 15; sex: female; lifeStage: adult; recordNumber: PCS102; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla harpax*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 2EE6E05B-180D-5760-BB18-92A5E9B89A3B

**Distribution:** Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Venezuela. Exotic in Jamaica, Lesser Antilles and the State of Georgia (United States).

**Notes:** This is the first record from the Floresta da Tijuca sector. Previously recorded by Vargas et al. (2013) and Santos et al. (2019) from the Serra da Carioca sector.

## *Pachycondyla striata* Smith, F., 1858

### Materials

- a. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *striata*; scientificNameAuthorship: Smith, F., 1858; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca); verbatimCoordinates: 22 57 2.0S 43 16 59.5W; verbatimLatitude: 22 57 2.0S; verbatimLongitude: 43 16 59.5W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 19; sex: female; lifeStage: adult; recordNumber: PAC101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla striata*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 52D1C397-506B-5E86-BDA3-46A44C87E094

- b. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *striata*;  
 scientificNameAuthorship: Smith, F., 1858; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da  
 solidão); verbatimCoordinates: 22 56 43.3S 43 17 28.9W; verbatimLatitude: 22 56 43.3S;  
 verbatimLongitude: 43 17 28.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2021; month: 1; day: 17-20;  
 verbatimEventDate: Summer 2021; habitat: Atlantic Forest; individualCount: 13; sex:  
 female; lifeStage: adult; recordNumber: PBS102; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla striata*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: FA31CA90-3DF0-59A4-A5DF-D89F4B6766D3
- c. taxonRank: species; genus: *Pachycondyla*; specificEpithet: *striata*;  
 scientificNameAuthorship: Smith, F., 1858; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Trilha de Mountain bike (Açude da solidão).;  
 verbatimCoordinates: 22 57 24.0S 43 16 59.9W; verbatimLatitude: 22 57 24.0S;  
 verbatimLongitude: 43 16 59.9W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Pitfall; year: 2022; month: 1; day: 17-19;  
 verbatimEventDate: Summer 2022; habitat: Atlantic Forest; individualCount: 10; sex:  
 female; lifeStage: adult; recordNumber: PCS110; recordedBy: M. M. Silva, A. J. Mayhé  
 Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Pachycondyla striata*; identifiedBy:  
 M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord:  
 PreservedSpecimen; occurrenceID: 94188DEB-7276-5EBD-9F6A-47C1C71C0D06

**Distribution:** Argentina, Bolivia, Brazil, Colombia, Ecuador, French Guiana, Panama, Paraguay, Peru, Uruguay, Venezuela.

**Notes:** This is the first record from the PNT. Previously recorded by Kempf (1960), Freitas et al. (2006), Salinas (2010) and Mackay and Mackay (2010) from the State of Rio de Janeiro without details.

## Subfamily Proceratiinae Emery, 1895

### *Discothyrea neotropica* Bruch, 1919

#### Materials

- a. taxonRank: species; genus: *Discothyrea*; specificEpithet: *neotropica*;  
 scientificNameAuthorship: Bruch, 1919; continent: South America; country: Brazil;  
 countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality:  
 Floresta da Tijuca, Parque Nacional da Tijuca, Bom Retiro (trilha para o pico da Tijuca);  
 verbatimCoordinates: 22 56 47.5S 43 17 30.6W; verbatimLatitude: 22 56 47.5S;  
 verbatimLongitude: 43 17 30.6W; verbatimCoordinateSystem: degrees minutes seconds;  
 verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 19-21;  
 verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 4; sex: female;  
 lifeStage: adult; recordNumber: WAS101; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J.  
 C. Santos, I. R. S. Cordeiro; identificationID: *Discothyrea neotropica*; identifiedBy: M. M.

- Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: A0DA1401-B5CB-587D-BEDA-B67A5CE898E9
- b. taxonRank: species; genus: *Discothyrea*; specificEpithet: *neotropica*; scientificNameAuthorship: Bruch, 1919; continent: South America; country: Brazil; countryCode: BR; stateProvince: Rio de Janeiro; municipality: Rio de Janeiro; locality: Floresta da Tijuca, Parque Nacional da Tijuca, trilha (caminho dos picos/ caminho da solidão); verbatimCoordinates: 22 57 27.8S 43 16 57.3W; verbatimLatitude: 22 57 27.8S; verbatimLongitude: 43 16 57.3W; verbatimCoordinateSystem: degrees minutes seconds; verbatimSRS: WGS84; samplingProtocol: Winckler; year: 2021; month: 7; day: 21-23; verbatimEventDate: Winter 2021; habitat: Atlantic Forest; individualCount: 1; sex: female; lifeStage: adult; recordNumber: WBS113; recordedBy: M. M. Silva, A. J. Mayhé Nunes, J. C. Santos, I. R. S. Cordeiro; identificationID: *Discothyrea neotropica*; identifiedBy: M. M. Silva; type: PhysicalObject; institutionCode: CEIOC; basisOfRecord: PreservedSpecimen; occurrenceID: 83A6D77F-F9E7-5F08-88F9-F5BD64127EF0

**Distribution:** Argentina, Brazil, Paraguay. Records from Venezuela need verification.

**Notes:** New species record for Floresta da Tijuca. This species was reported by Kempf (1972) from Rio de Janeiro, but its locality was not described.

## Analysis

We sorted 3,095 specimens of ants, identified as 80 species belonging to eight subfamilies (Table 1). The area with the highest species richness was the PF zone with 54 species, followed by DTBD and ARS zones with 48 and 47 species, respectively. During the dry season, ARS was the area with the greatest richness, totalling 40 species. In the rainy season, however, the highest richness was found in the DTBD zone (Fig. 2).

Table 1.

Frequency (number of positive samples per area, regardless of the collecting method) of ant species collected in the Floresta da Tijuca sector, Parque Nacional da Tijuca.

Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
<b>Amblyoponinae</b>				
<i>Fulakora elongata</i> (Santschi, 1912)	-	-	1	1
<b>Dolichoderinae</b>				
<i>Linepithema angulatum</i> (Emery, 1894)	-	1	-	1
<i>Linepithema micans</i> (Forel, 1908)	2	1	-	3
<b>Dorylinae</b>				
<i>Labidus coecus</i> (Latreille, 1802)	2	-	-	2
<i>Labidus praedator</i> (Smith, F., 1858)	-	-	6	6



Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
<i>Neocerapachys neotropicus</i> Weber, 1939	-	-	1	1
<b>Ectatomminae</b>				
<i>Ectatomma edentatum</i> Roger, 1863	-	4	-	4
<i>Ectatomma muticum</i> Mayr, 1870	-	2	-	2
<i>Ectatomma permagnum</i> Forel, 1908	-	1	-	1
<i>Gnamptogenys continua</i> (Mayr, 1887)	2	-	1	3
<i>Gnamptogenys horni</i> (Santschi, 1929)	2	-	1	3
<i>Heteroponera dentinodis</i> (Mayr, 1887)	1	-	-	1
<i>Heteroponera dolo</i> (Roger, 1860)	7	-	1	8
<i>Heteroponera mayri</i> Kempf, 1962	2	1	-	3
<i>Holcoponera mina</i> Brown, 1956	2	-	-	2
<i>Holcoponera moelleri</i> (Forel, 1912)	14	17	23	54
<i>Typhlomyrmex lavra</i> (Lattke, 2002)	1	2	1	4
<b>Formicinae</b>				
<i>Acropyga decedens</i> (Mayr, 1887)	1	-	-	1
<i>Brachymyrmex admotus</i> Mayr, 1887	6	3	-	9
<i>Brachymyrmex australis</i> Forel, 1901	4	5	1	10
<i>Brachymyrmex bruchi</i> Forel, 1912	1	-	-	1
<i>Brachymyrmex degener</i> Emery, 1906	1	-	-	1
<i>Camponotus atriceps</i> (Smith, F., 1858)	4	1	2	7
<i>Myrmelachista bettinae</i> Forel, 1903	-	1	-	1
<i>Nylanderia docilis</i> (Forel, 1908)	-	2	8	10
<i>Nylanderia fulva</i> (Mayr, 1862)	-	1	-	1
<i>Nylanderia goeldii</i> (Forel, 1912)	1	2	-	3
<i>Nylanderia guatemalensis</i> (Forel, 1885)	1	2	-	3
<i>Nylanderia steinheili</i> (Forel, 1893)	1	5	1	7
<b>Myrmicinae</b>				
<i>Acanthognathus brevicornis</i> Smith, 1944	4	-	9	13
<i>Acromyrmex brunneus</i> (Forel, 1912)	-	-	4	4

Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
<i>Acromyrmex molestans</i> Santschi, 1925	-	-	1	1
<i>Acromyrmex subterraneus</i> (Forel, 1893)	1	1	4	6
<i>Apterostigma ierense</i> Weber, 1937	-	-	1	1
<i>Apterostigma pilosum</i> Mayr, 1865	4	-	2	6
<i>Basiceros disciger</i> (Mayr, 1887)	2	-	-	2
<i>Cardiocondyla minutior</i> Forel, 1899	1	-	-	1
<i>Carebara brevopilosa</i> Fernández, 2004	-	2	-	2
<i>Crematogaster montana</i> Borgmeier, 1939	1	-	-	1
<i>Crematogaster nigropilosa</i> Mayr, 1870	-	-	1	1
<i>Cyphomyrmex minutus</i> Mayr, 1862	1	2	4	7
<i>Cyphomyrmex rimosus</i> (Spinola, 1851)	3	4	10	17
<i>Hylomyrma reitteri</i> (Mayr, 1887)	11	5	9	25
<i>Lachnomyrmex plaumanni</i> Borgmeier, 1957	1	-	-	1
<i>Megalomyrmex goeldii</i> Forel, 1912	6	13	12	31
<i>Mycetomoellerius oetkeri</i> (Forel, 1908)	-	5	-	5
<i>Octostruma iheringi</i> (Emery, 1888)	-	-	1	1
<i>Octostruma rugifera</i> (Mayr, 1887)	4	5	12	21
<i>Oxyepoecus myops</i> Albuquerque & Brandão, 2009	1	-	-	1
<i>Pheidole tijucana</i> Borgmeier, 1927	2	-	-	2
<i>Rogeria lacertosa</i> Kempf, 1963	2	-	-	2
<i>Sericomyrmex bondari</i> Weber, 1938	-	2	1	3
<i>Sericomyrmex saussurei</i> Emery, 1894	1	8	6	15
<i>Strumigenys cosmostela</i> Kempf, 1975	-	-	1	1
<i>Strumigenys crassicornis</i> Mayr, 1887	2	-	-	2
<i>Strumigenys denticulata</i> Mayr, 1887	7	15	13	35
<i>Strumigenys elongata</i> Roger, 1863	-	1	1	2
<i>Strumigenys hindenburgi</i> Forel, 1915	1	1	1	3
<i>Strumigenys subdentata</i> Mayr, 1887	-	-	1	1
<i>Paratrachymyrmex cometzi</i> (Forel, 1912)	-	2	-	2

Subfamily, species	Sampling areas			
	Primary Forest	Advanced Restoration	Disturbed	Total
<i>Wasmannia affinis</i> Santschi, 1929	3	10	1	14
<i>Wasmannia auropunctata</i> (Roger, 1863)	-	-	15	15
<i>Wasmannia lutzii</i> Forel, 1908	3	4	-	7
<b>Pseudomyrmicinae</b>				
<i>Pseudomyrmex schuppi</i> (Forel, 1901)	-	1	-	1
<b>Ponerinae</b>				
<i>Anochetus mayri</i> Emery, 1884	3	7	-	10
<i>Hypoponera distinguenda</i> (Emery, 1890)	1	0	2	3
<i>Hypoponera foreli</i> (Mayr, 1887)	12	3	9	24
<i>Hypoponera leveillei</i> (Emery, 1890)	2	-	1	3
<i>Hypoponera parva</i> (Forel, 1909)	12	6	4	22
<i>Hypoponera trigona</i> (Mayr, 1887)	16	3	12	31
<i>Hypoponera viri</i> (Santschi, 1923)	10	4	6	20
<i>Leptogenys luederwaldti</i> Forel, 1913	2	-	4	6
<i>Neoponera verena</i> (Forel, 1922)	-	6	1	7
<i>Odontomachus affinis</i> Guérin-Ménéville, 1844	2	1	2	5
<i>Odontomachus brunneus</i> (Patton, 1894)	0	1	1	2
<i>Odontomachus chelifera</i> (Latreille, 1802)	2	3	2	7
<i>Odontomachus meinerti</i> Forel, 1905	1	5	2	8
<i>Pachycondyla harpax</i> (Fabricius, 1804)	2	2	15	19
<i>Pachycondyla striata</i> Smith, F., 1858	19	13	10	42
<b>Proceratiinae</b>				
<i>Discothyrea neotropica</i> Bruch, 1919	4	1	-	5

The most frequent species across all three sampled areas was *Holcoponera moelleri*, with relative frequencies of 17.5% in PF, 21% in ARS and 28.7% in DTBD. Other species with high relative frequency in the PF area include *Pachycondyla striata* (23.7%), *Hypoponera trigona* (20%) and *Hypoponera foreli* (15%). In the ARS area, the most frequent species were *Strumigenys denticulata* (18.7%), *Megalomyrmex goeldii* (16.2%) and *P. striata* (16.2%), while *Pachycondyla harpax* (18.7%), *Wasmannia auropunctata* (18.7%) and *S. denticulata* (16.2%) were more frequent in the DTBD zone.

Our results also increase the number of ant species recorded from the PNT from 149 to 200, while the known richness of the Floresta da Tijuca sector is expanded from 31 to 50. Furthermore, 10 species are recorded for the first time from the State of Rio de Janeiro and one from the Atlantic Forest biome (see notes in the species list above for details). The known range of *Hypoponera viri* is extended northwards, while those of *Holcaponera mina* and *Neocerapachys neotropicus* Weber, 1939 are extended southwards and *Brachymyrmex bruchi* Forel, 1912 and *Hypoconera parva* (Forel, 1909) are extended eastwards.

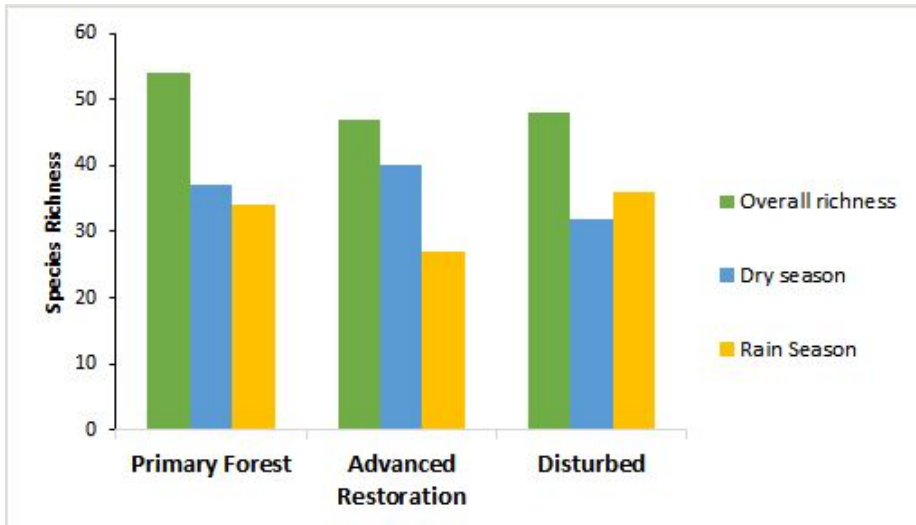


Figure 2. [doi](#)

Ant species richness in the Floresta da Tijuca sector, Parque Nacional da Tijuca. The primary forest area exhibited the highest overall species richness, with the area in advanced restoration showing the highest richness during the dry season and the disturbed area being the richest during the rainy season.

## Discussion

This work contributes to understanding the myrmecofauna of the PNT more comprehensively. We focused our efforts on the Floresta da Tijuca sector, while several published studies Borgmeier (1927), Kempf (1960), Kempf (1972), Brandão (1991), Klingenberg and Brandão (2005), Araújo et al. (2007), Veiga-Ferreira et al. (2010), Orsolon-Souza et al. (2011), Vargas et al. (2013), Silva and Brandão (2014), Santos et al. (2019)(Borgmeier 1927, Kempf 1960, Kempf 1972, Brandão 1991, Klingenberg and Brandão 2005, Araújo et al. 2007, Veiga-Ferreira et al. 2010, Orsolon-Souza et al. 2011, Vargas et al. 2013, Silva and Brandão 2020, Santos et al. 2019 and Silva et al. 2022) aimed at different parts of the Serra da Carioca sector, where urban attractions, such as the Parque Lage, Rio de Janeiro Botanical Garden and Christ the Redeemer, are located. The species richness in the Serra da Carioca sector is similar to what was

observed in this study, with an average of approximately 80 species. However, despite sharing some species with the Floresta da Tijuca sector, the composition of species recorded from Serra da Carioca is slightly different. One factor that can contribute to this difference is the vegetation structure and stability of communities, as areas in the Serra da Carioca sector can suffer more direct impacts from urbanisation (i.e. pollution, fires and deforestation). Throughout the history of the PNT, these areas have undergone modifications that have certainly impacted the local fauna (i.e. locally extinct species, introduced opportunistic species, removed native forest) (Mulinge 2023). Forest cover, regardless of the stage of preservation, is a factor that has a great influence on ant abundance and diversity (Martins et al. 2022), due to its role in establishing interactions and ecological services that are fundamental to the balance of associated ecosystems (Freitas et al. 2006 and Martins et al. 2022).

The majority of species in the Floresta da Tijuca sector belong to the generalist predator functional group, according to Koch et al. (2019). This suggests that they have high ecological adaptability, enabling them to survive in the three different vegetation conditions that were studied. This is particularly true for species such as *Labidus praedator* and *Wasmannia auropunctata*, which are good indicators of environments influenced by human activity or undergoing restoration. These species can tolerate ecological disturbances and adapt to peri-urban environments where they can commonly be found (Orivel et al. 2009, Rosumek 2017, Tibcherani et al. 2018 and Santos et al. 2019). Orivel et al. 2009, Rosumek 2017, Tibcherani et al. 2018 Santos et al. 2019

The many new records and distribution expansions that we discovered during this study, in different levels (for the sector, the PNT, Rio de Janeiro or even the Atlantic Forest), highlight the importance of establishing and effectively managing protected areas in cities and how inventories in such areas can decrease some of the main biodiversity knowledge shortfalls that hinder effective conservation actions (Agosti et al. 2000, Hortal et al. 2015, Borowiec 2016, Janicki et al. 2016, Guénard 2017 and Silva et al. 2022). Our work also increases the ant species richness recorded from the PNT by more than 25% and demonstrates how important this protected area is in conserving a diverse myrmecofauna and probably also other groups of terrestrial invertebrates.

## Conclusion

This work contributes to our understanding of the ant population in the study area and the PNT as a whole. Many of the species we identified had never been documented in the Floresta da Tijuca sector or the PNT. Additionally, a few species are herein reported from the State of Rio de Janeiro for the first time and one from the Atlantic Forest. However, most terrestrial invertebrates in this protected area have not been thoroughly studied. It is crucial to make new efforts to study the invertebrate fauna in the region, focusing especially on discovering primary biodiversity data and applying it in conservation planning.

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## Author contributions

MMS collected, identified specimens and wrote the manuscript. AJMN collected, identified specimens and revised the manuscript. FFFM wrote and revised the manuscript.

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