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REVIEW

Mapping continental Ecuadorian ant species

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Abstract

Ecuador is considered a diverse country but information on the distribution and conservation of its ant species is scarce and scattered through the literature. Here we review 150 years of published literature to assemble the first comprehensive species list of continental Ecuadorian ants (excluding the Galapagos Islands). Our main goal is to serve as a reference to the various research initiatives currently being done in the country. We found 2,124 ant records of 679 ant species from 180 localities reported in 149 articles. We used a subset of this database (i.e. 1,125 records left after removal of duplicates and records with no locality information) to review the Ecuadorian regions, provinces, and national parks covered by the list. For a tropical country, both the number of records per ant species (mean=1.8, SD=1.9) and the number of ant species per locality (mean=6.2, SD=29.7) are extremely low. Moreover, the ant records in our list are biased towards three provinces (Orellana, 410 ant records and 378 ant spp.; Sucumbios, 212 and 177; Pichincha, 129 and 92), one region (Oriente, 779 records and 487 ant species) and non-protected areas (777 ant records and 510 ant spp.). Endemic ants are poorly covered by the Ecuadorian system of protected areas. This study highlights the gaps and opportunities in ant research for the country.

Introduction

Ecuador is a Neotropical country occurring along the equator line, for which it is named. Ecuador is bordered by Colombia to the North, Peru to the East and South, and the Pacific Ocean to the West. The country has an astonishing variety of ecosystems provided by its tropical climate (Ecuador is surrounded by wet forests on the north and east sides), oceanic influence (the Humboldt Current provides southwest Ecuador drylands) and an altitudinal gradient (i.e. the Andes mountains) that cuts the continental territory in halves. Responding to these conditions, species richness of amphibians, birds, mammals, and plants peak in Ecuador (Bass *et al.*, 2010).

Most previous Ecuadorian ant research has focused on invasive ants of the Galapagos Islands (Herrera & Albelo, 2007; Herrera & Causton, 2010; Herrera & Longino, 2008; Herrera *et al.*, 2014). Available information on continental ants is much more scattered and little is known about the

species richness and distribution of the continental ant fauna (Kempf, 1972; Brandao, 1991; Fernandez & Sendoya, 2004). The first publications on continental ants date back to the 19th century and were focused on the Valley of Quito. Mayr (1866) reported *Hypoclynea ursus* Mayr 1866 [currently known as *Dolichoderus abruptus* (Smith 1858)] in Quito, Pichincha Province. Orton (1872) reported again *Dolichoderus abruptus* and *Neoponera carbonaria* (Smith, 1858) in the Valley of Quito. Cameron (1891) published a list of six ant species (*Camponotus atriceps* (Smith, 1858), *Camponotus silvicola* Forel, 1902, *Cylindromyrmex whymperi* (Cameron, 1891), *Ectatomma brunneum* Smith, 1858, *Odontomachus haematodus* (Linnaeus, 1758), and *Pheidole cameroni* Mayr, 1887) gathered by E. Whymper in their famous travels across the Andes. Recently, ant research has focused on Amazonian diversity. For example, the research group lead by J. Traniello (K. Ryder and A. Mertl) provided us with a better glimpse of the true alpha diversity of ants in Tiputini, Orellana



Province (Mertl *et al.*, 2010; Ryder *et al.*, 2010). Salazar & Donoso (2013) gathered museum specimens from Limoncocha (Sucumbios Province) collected by C. Rettenmeyer's research group. These studies suggest that alpha diversity in the Amazon may well reach >400 ant species. Nowadays, ecology-focused research has made a larger impact (and has filled more museum cabinets) on our understanding of Ecuadorian ant biodiversity and its ecological functions (Kaspari *et al.*, 2003, Kaspari & O'Donnell, 2003, O'Donnell *et al.*, 2005, O'Donnell *et al.*, 2007, Mertl *et al.*, 2012, Delsinne *et al.*, 2013, Donoso *et al.*, 2013, Clay *et al.*, 2015).

This study aims to 1) provide a first comprehensive review of published literature on Ecuadorian continental ants, and current local initiatives to document the ant species living in Ecuador; 2) update published species names and locality information for all records; 3) explore the geographic patterns of the records, reviewing the Ecuadorian regions, provinces, and national parks covered in the list; and 4) provide recommendations for future collection efforts.

Materials and Methods

Ant records for continental Ecuador were extracted from peer-reviewed journal articles (*e.g.* taxonomic literature, checklists, ecological manuscripts) found in our research libraries and through the Internet using standard tools (Google Scholar) and databases (ISI Web of Knowledge, antcat.org and antweb.org). Information included in PhD theses, reports, museum and online databases were excluded from the list. We relied on published literature because we wanted to provide a working baseline of ants in continental Ecuador, and not a comprehensive review of unpublished museum material. Given our focus on the distribution of ant species, records from all previous regional catalogues (*e.g.*, Kempf, 1972; Brandao, 1991; Fernandez & Sendoya, 2004) that did not include locality information were excluded from analysis. However, species reported in the regional catalogues elsewhere for Ecuador with no specific locality info was included in the list as locality "unknown". We standardize all taxonomic information using Bolton (2014) available in the AntCat.org online tool.

We georeferenced all specimen records in the list by using Google Earth and country-level gazetteers. No georeferencing error was estimated. All locality names were updated, correcting for misspelling (common among non-Spanish speaker collectors) and the latest changes in political divisions of Ecuador. Three provinces (Guayas, Napo and Pichincha) have recently been split into 7 provinces (Guayas and Santa Elena; Napo and Sucumbios and Orellana; Pichincha and Santo Domingo de los Tsachilas). We plotted these records against standard maps of provinces (Instituto Nacional de Estadísticas y Censos, 2012), national regions (Universidad del Azuay, 2003), and Ecuadorian protected areas and National Parks (Ministerio de Ambiente del Ecuador, 2014).

Results

We found a total of 149 articles that report continental Ecuadorian ants. In total, these articles provided us with 2,124 ant records from 679 ant species (Table 1). These ant species were distributed among 180 localities. We found 68 ant species currently endemic to Ecuador. The number of duplicate records (*i.e.* museum specimens reviewed in more than one publication) and records with no specific locality info was high; only 1,125 ant records were counted after removal of duplicate records and records with no locality information. The full dataset used for analysis is provided as supplemental material (Available at <http://periodicos.ufrj.br/ojs/index.php/sociobiology/rt/suppFiles/744/0>; doi:10.13102/sociobiology.v62i2.132-162.s976).

The average number of records per ant species was 1.8 (SD=1.9) and the average number of ant species per locality was 6.2 (SD=29.7). The majority of records are from three provinces (Orellana, 410 ant records and 378 ant species; Sucumbios, 212 and 177; Pichincha, 129 and 92) from the northeast of the country (Fig 1 and Table 2). One region (*i.e.* "Oriente" or Amazon basin) has the highest quantity of records (779 records and 487 ant species). Consequently, only 10% of the 1,125 records in our gazetteer fall within the Coast region (Fig 2). The Ecuadorian system of National Parks and protected areas are not well represented in our database. Non-protected areas registered 777 ant records and 510 ant species. The same pattern applied to endemic ant species, which were poorly covered by the Ecuadorian system of protected areas. Most endemic ant records are towards the Pichincha and Santo Domingo de los Tsachilas provinces (at the center of the country) near the major airport (Fig 3). Only 8 (out of 68) endemic ant records fall within conserved areas (Fig 4).

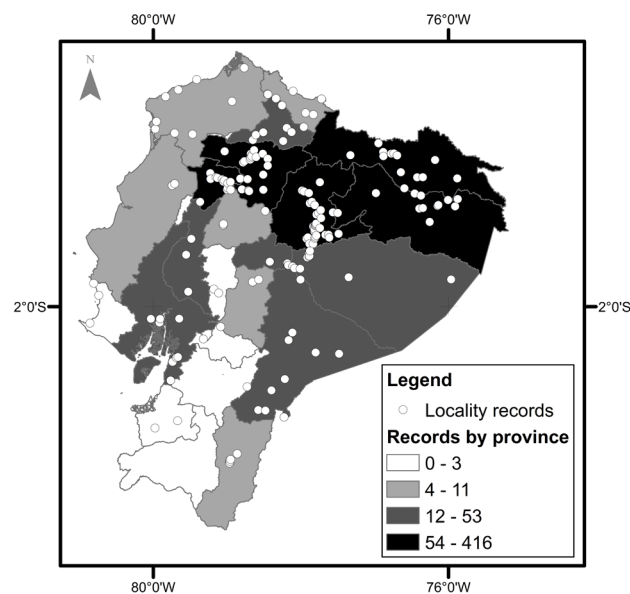


Fig 1. Distribution of ant locality records in the 24 Ecuadorian provinces. Provinces have been colored by the number of ant locality records in each. Notice the trend in the accumulation of records from the northeast (more records) to southwest (less records) of the country.

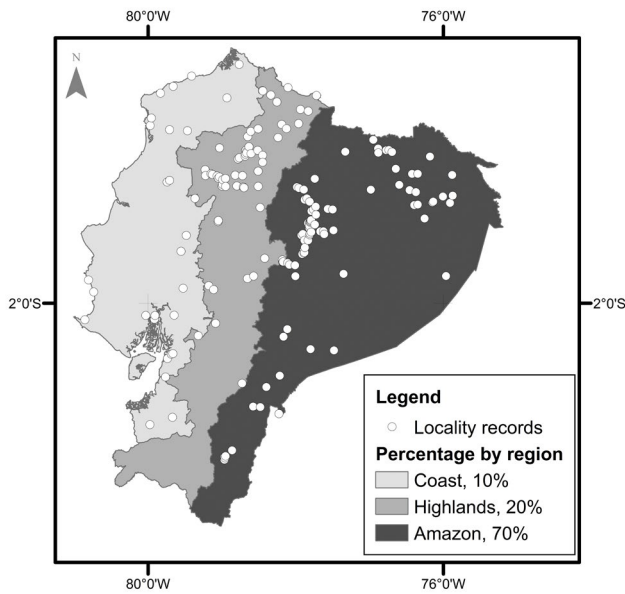


Fig 2. Distribution of ant locality records in the three Ecuadorian regions (Coast, Highlands and Amazon). Regions have been colored by number of ant locality records in each. Only 10% of the 1,125 records in our gazetteer fall within the Coast.

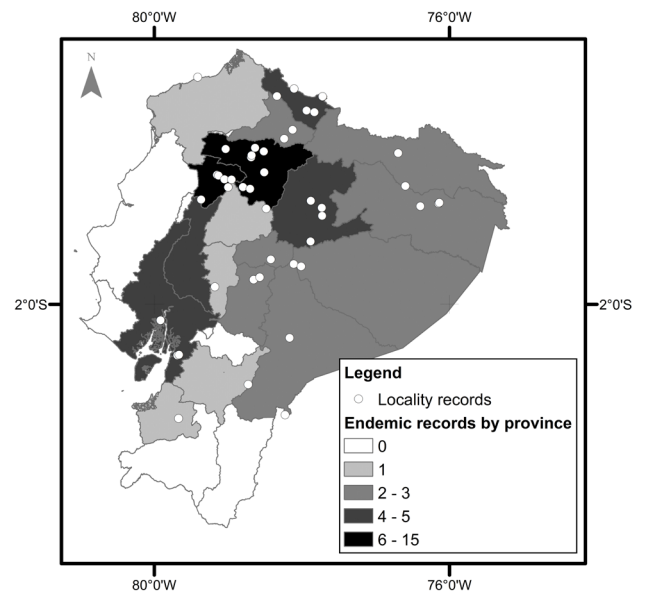


Fig 3. Distribution of endemic ant locality records in the 24 Ecuadorian provinces. Provinces have been colored by the number of endemic ant locality records in each. Most endemic ant records are towards the Pichincha and Santo Domingo de los Tsachilas provinces (at the center of the country) near the major airport.

Table 2. Distribution of georeferenced ant records across Ecuadorian provinces. Data are provided for ant specimen and ant species in our dataset. Records for both, all ant species and endemic ant species, are given.

Province	All species records		Endemic species records	
	Specimens	Species	Specimens	Species
Azuay	1	1	1	1
Bolivar	3	3	1	1
Cañar	2	2	0	0
Carchi	4	3	4	3
Chimborazo	4	3	2	1
Cotopaxi	17	17	1	1
El Oro	2	2	1	1
Esmeraldas	12	9	1	1
Guayas	32	27	5	4
Imbabura	13	10	3	2
Loja	0	0	0	0
Los Ríos	53	50	4	4
Manabí	9	8	0	0
Morona Santiago	37	31	2	2
Napo	82	56	4	4
Orellana	410	378	3	2
Pastaza	29	26	2	2
Pichincha	129	92	14	13
Santa Elena	3	3	0	0
Santo Domingo de los Tsachilas	40	37	15	14
Sucumbios	212	177	2	2
Tungurahua	10	10	3	3
Zamora Chinchipe	7	5	0	0

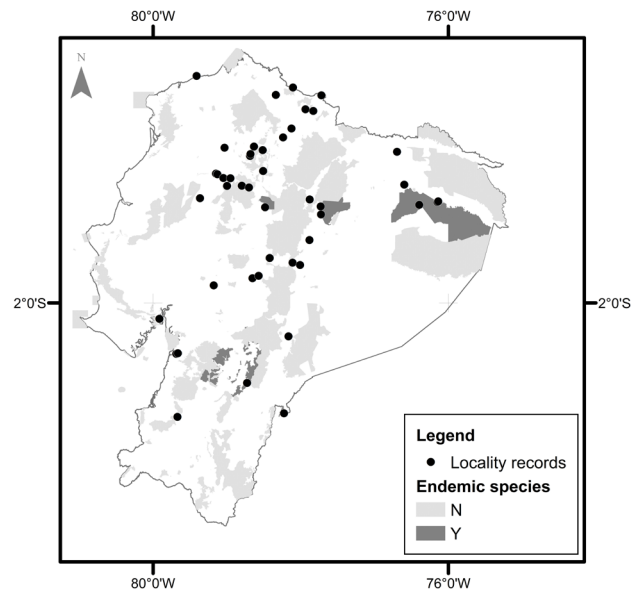


Fig 4. Distribution of endemic ant locality records regarding protected areas and National Parks, which have been color coded to show if they protect endemic species or not. Only 8 (out of 68) endemic ant locality records fall within such areas.

Discussion

We present the first list of continental Ecuadorian ants 150 years after the first record of an ant in the country. The 149 papers report 1,125 unique ant records distributed in 180 unique localities. Consideration of this list shows an incomplete and skewed picture of the diversity and species richness of Ecuadorian ants. The total number of species in the

list and our accumulated knowledge on the different localities is extremely low. For example, there has been attempts to record complete ant faunas of only 1 locality within Ecuador (Ryder *et al.*, 2010). The collection records are biased towards northwestern areas, possibly due to the presence of the major airport in the capital city, greater accessibility towards the northern Oriente land, and the presence of older research stations. Specimen records in general, and endemic species in particular, are not well represented in National Parks.

These trends suggest many different ways to ameliorate the problem. We hope this list will encourage local scientists to report all unpublished records (in theses, reports and online databases) in peer-reviewed journals. Reporting new records requires a basic amount of work that local students and scientists are not yet accustomed to do, especially when they do not have proper resources at hand. This work includes properly curating and labeling pinned specimens, depositing specimens in museums, reviewing relevant literature, and geolocating, databasing, and imaging specimens. More effort should be put to survey underexplored areas. The paucity of record accumulation in our database prevents us from doing more telling analyses (e.g. Guenard *et al.*, 2012), but it does suggest that Provinces like Loja (with 0 georeferenced records), Cañar (2 georeferenced records), Bolívar and Santa Elena (3 georeferenced records each), and Carchi and Chimborazo (4 records each) can be better explored. Local scientists need to collaborate and educate local authorities in conservation practices. Natural reserves in Ecuador are poorly sampled for ants, an ecologically dominant group of insects. As a consequence, national parks have little knowledge of what they protect. Finally, we challenge Ecuadorians to explore the broader ecological impacts of ants in Ecuador.

Ecuador needs to build strong museums, with adequate infrastructure and personnel. To date, only one research museum in the country (the QCAZ Museum at Pontificia Universidad Católica del Ecuador, in Quito) provides the basic standards to curate and maintain in time insect specimens, but there are not specialists working with Formicidae, let alone Hymenoptera, in the QCAZ Museum. As a consequence, foreigners do most of the ant research in Ecuador and few prospects currently exist to change this reality. The task to reveal and comprehend the megadiversity of Ecuador ultimately relies on all Ecuadorians alike. Students, scientists, universities and local governments will have to work together to accomplish this task.

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Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table.

Species	Provinces	Cited in
<i>Acanthognathus</i>		
<i>Acanthognathus brevicornis</i> Smith 1944	Orellana	[67]
<i>Acanthognathus teledectus</i> Brown & Kempf 1969	Pichincha, S.Domingo	[33], [115]
<i>Acanthoponera</i>		
<i>Acanthoponera minor</i> (Forel 1899)	Orellana, S.Domingo	[16], [119], [127]
<i>Acanthoponera mucronata</i> (Roger 1960)	S.Domingo	[115]
<i>Acanthoponera peruviana</i> Brown 1958	Orellana	[119]
<i>Acanthostichus</i>		
<i>Acanthostichus fuscipennis</i> Emery 1895	Sucumbios	[96]
<i>Acanthostichus quadratus</i> Emery 1895	Orellana, Sucumbios	[96], [117], [119]
<i>Acromyrmex</i>		
<i>Acromyrmex aspersus</i> (Smith 1858)	S.Domingo	[122]
<i>Acromyrmex coronatus</i> (Fabricius 1804)	Orellana, Sucumbios	[106], [119], [120]
<i>Acromyrmex coronatus andicola</i> Emery 1924	Loja	[44], [70]
<i>Acromyrmex hystrix</i> (Latreille 1802)	S.Domingo	[122]
<i>Acromyrmex niger</i> (Smith 1858)	Guayas	[54]
<i>Acromyrmex octospinosus</i> (Reich 1793)	Guayas, S.Domingo	[58], [122]
<i>Acropyga</i>		
<i>Acropyga decedens</i> (Mayr 1887)	Napo, Orellana	[79], [106], [119]
<i>Acropyga donisthorpei</i> Weber 1944	Orellana	[106], [119]
<i>Acropyga exsanguis</i> (Wheeler 1909)	Orellana	[104]
<i>Acropyga fuhrmanni</i> (Forel 1914)	Cañar, Orellana	[79], [106], [119]
<i>Acropyga goeldii</i> Forel 1893	Sucumbios	[120]
<i>Acropyga guianensis</i> Weber 1944	Manabi, Napo, Orellana, Sucumbios	[79], [106], [119], [120]
<u><i>Acropyga hirsutula</i> LaPolla 2004</u>	Napo	[79]
<i>Adelomyrmex</i>		
<i>Adelomyrmex cristiani</i> Fernández 2003	Pichincha	[92]
<i>Adelomyrmex myops</i> (Wheeler 1910)	unknown	[92]
<i>Adelomyrmex striatus</i> Fernández 2003	Napo	[92]
<i>Adelomyrmex tristani</i> (Menozzi 1931)	unknown	[92]
<i>Allomerus decemarticulatus</i> (Mayr 1878)	Sucumbios	[120]
<i>Allomerus octoarticulatus</i> Mayr 1878	Sucumbios	[120]
<i>Anochetus</i>		
<i>Anochetus bispinosus</i> (Smith 1858)	Orellana, Sucumbios	[119], [120]
<i>Anochetus diegensis</i> Forel 1912	Napo, Orellana	[21], [67], [106], [118], [119]
<i>Anochetus mayri</i> Emery 1884	Orellana	[106], [119]
<i>Anochetus simoni</i> Emery 1890	Guayas, Manabi, Pastaza, Pichincha	[21]
<i>Anochetus targionii</i> Emery 1894	Sucumbios	[21]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Apterostigma</i>		
<i>Apterostigma auriculatum</i> Wheeler 1925	M.Santiago, Orellana	[83], [106], [118], [119]
<i>Apterostigma bolivianum</i> Weber 1938	M.Santiago	[83]
<i>Apterostigma callipygium</i> Lattke 1997	Sucumbios	[83]
<i>Apterostigma dentigerum</i> Wheeler 1925	Esmeraldas, Los Ríos, Manabi	[83]
<i>Apterostigma depressum</i> Lattke 1997	Napo, Pastaza	[83]
<i>Apterostigma epinotale</i> Weber 1937	Sucumbios	[120]
<i>Apterostigma ierense</i> Weber 1937	Los Ríos, Sucumbios	[83]
<i>Apterostigma mayri</i> Forel 1893	Orellana, Sucumbios	[67], [120]
<u><i>Apterostigma tholiforme</i></u> Lattke 1997	Los Ríos	[83]
<i>Apterostigma urichii</i> Forel 1893	Orellana, Sucumbios	[67], [120]
<i>Atta</i>		
<i>Atta cephalotes</i> (Linnaeus 1758)	Napo, Orellana, Pichincha, S. Domingo, Sucumbios	[25], [28], [44], [54], [59], [60], [115], [120], [130]
<i>Atta sexdens</i> (Linnaeus 1758)	unknown	[44]
<i>Azteca</i>		
<i>Azteca alfari</i> Emery 1893	Sucumbios	[120]
<i>Azteca constructor</i> Emery 1896	Los Ríos	[126]
<i>Azteca flavigaster</i> Longino 2007	Los Ríos	[89]
<i>Azteca forelii</i> Emery 1893	Guayas, Sucumbios	[89]
<i>Azteca trigona</i> Emery 1893	Sucumbios	[120]
<i>Azteca velox</i> Forel 1899	Sucumbios	[59], [120], [128]
<i>Basiceros</i>		
<i>Basiceros conjugans</i> Brown 1974	Orellana, Sucumbios	[12], [17], [106], [119]
<i>Basiceros manni</i> Brown & Kempf 1960	Orellana	[106], [119]
<i>Basiceros militaris</i> (Weber 1950)	Orellana	[106], [119]
<i>Brachymyrmex</i>		
<i>Brachymyrmex cavernicola</i> Wheeler 1938	Orellana	[106], [117], [118], [119]
<i>Camponotus</i>		
<i>Camponotus abscisus</i> Roger 1863	Orellana	[119]
<i>Camponotus ager</i> (Smith 1858)	Sucumbios	[120]
<i>Camponotus arboreus</i> (Smith 1858)	Orellana	[119]
<i>Camponotus atriceps</i> (Smith 1858)	Guayas, Orellana, S.Domingo, Sucumbios	[26], [106], [118], [119], [120], [122]
<i>Camponotus bidens</i> Mayr 1870	Orellana	[119]
<i>Camponotus bispinosus</i> Mayr 1870	Orellana	[118], [119]
<i>Camponotus branneri</i> (Mann 1916)	Orellana	[119]
<i>Camponotus brevis</i> Forel 1899	Orellana	[119]
<i>Camponotus cacicus</i> Emery 1903	Orellana, Sucumbios	[118], [119], [120]
<i>Camponotus callistus</i> Emery 1911	Orellana	[119]
<i>Camponotus callistus bradleyi</i> Wheeler 1934	Orellana	[119]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
Camponotus		
<i>Camponotus chartifex</i> (Smith 1860)	Napo, Sucumbios	[47], [120]
<i>Camponotus claviscapus</i> Forel 1899	Orellana	[106], [119]
<i>Camponotus constructor</i> Forel 1899	Orellana	[119]
<i>Camponotus emeryodicatus</i> Forel 1901	Orellana	[119]
<i>Camponotus eurynotus</i> Forel 1907	Orellana	[104], [119]
<i>Camponotus excisus</i> Mayr 1870	Orellana	[119]
<i>Camponotus extensus</i> Mayr 1876	S.Domingo	[122]
<i>Camponotus femoratus</i> (Fabricius 1804)	Orellana, Sucumbios	[106], [117], [118], [119], [120]
<i>Camponotus formiciformis</i> Forel 1885	Orellana	[119]
<i>Camponotus helleri</i> Emery 1903	Orellana	[119]
<i>Camponotus hippocrepis</i> Emery 1920	Orellana	[119]
<u><i>Camponotus holzi</i> Forel 1921</u>	Pichincha	[60], [70]
<i>Camponotus integellus</i> Forel 1899	Orellana	[44], [106], [118], [119]
<i>Camponotus latangulus</i> Roger 1863	Orellana	[119]
<i>Camponotus linnaei</i> Forel 1886	Orellana	[119]
<i>Camponotus macrochaeta</i> Emery 1903	Orellana	[119]
<i>Camponotus melanoticus</i> Emery 1894	S.Domingo	[122]
<i>Camponotus mocsaryi</i> Forel 1902	Orellana	[119]
<i>Camponotus mus</i> Roger 1863	Orellana	[119]
<i>Camponotus nidulans</i> (Smith 1860)	Napo, Orellana, Sucumbios	[47], [118], [119], [120]
<i>Camponotus nitidior</i> (Santschi 1921)	Orellana	[119]
<i>Camponotus novogranadensis</i> Mayr 1870	Orellana, Sucumbios	[119], [120]
<i>Camponotus orthocephalus</i> Emery 1894	Orellana	[119]
<i>Camponotus picipes</i> (Olivier 1792)	Pichincha	[122]
<i>Camponotus planatus</i> Roger 1863	Orellana	[106], [119]
<i>Camponotus planus peregrinus</i> Emery 1893	Guayas	[70]
<i>Camponotus rapax</i> (Fabricius 1804)	Orellana, Sucumbios	[106], [117], [119], [120]
<i>Camponotus reburrus</i> Mackay 2013	Napo, Orellana, Sucumbios	[100]
<i>Camponotus renggeri</i> Emery 1894	Sucumbios	[120]
<i>Camponotus rudigenis</i> Emery 1903	S.Domingo	[122]
<i>Camponotus senex</i> (Smith 1858)	Orellana	[106], [119]
<i>Camponotus sericeiventris</i> (Guérin-Méneville 1838)	Pichincha, S.Domingo, Sucumbios	[33], [120], [122]
<i>Camponotus sericeiventris rex</i> Forel 1907	unknown	[58]
<i>Camponotus sericeiventris satrapus</i> Wheeler 1931	unknown	[44]
<i>Camponotus sexguttatus</i> (Fabricius 1793)	Orellana, Pichincha, Sucumbios	[60], [119], [120]
<i>Camponotus sexguttatus albotaeniolatus</i> Forel 1921	Pichincha	[70]
<i>Camponotus silvicola</i> Forel 1902	Chimborazo, Pichincha, Sucumbios	[26], [120], [122]
<i>Camponotus simillimus</i> (Smith 1862)	Pichincha	[122]
<i>Camponotus simillimus indianus</i> Forel 1879	Pichincha	[57]
<i>Camponotus taeniatus</i> Roger 1863	S.Domingo	[122]
<i>Camponotus wheeleri</i> Mann 1916	Sucumbios	[120]
<i>Camponotus wytsmani</i> Emery 1920	Orellana	[119]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Cardiocondyla</i>		
<i>Cardiocondyla minutior</i> Forel 1899	Orellana	[32]
<i>Cardiocondyla wroughtonii</i> (Forel 1890)	Loja	[32]
<i>Carebara</i>		
<i>Carebara angulata</i> Fernandez 2004	Orellana, Sucumbios	[49], [106], [119]
<i>Carebara anophthalma</i> (Emery 1906)	Imbabura	[49]
<i>Carebara globularia</i> Fernandez 2004	Sucumbios	[49]
<i>Carebara panamensis</i> (Wheeler 1925)	Orellana	[106], [119]
<i>Carebara paya</i> Fernández 2004	Orellana	[106], [117], [119]
<i>Carebara urichi</i> (Wheeler 1922)	Orellana	[106], [117], [118], [119]
<i>Centromyrmex</i>		
<i>Centromyrmex alfaroi</i> Emery 1890	Orellana	[117], [119]
<i>Cephalotes</i>		
<i>Cephalotes atratus</i> (Linnaeus 1758)	M.Santiago, Napo, Orellana, Pichincha, Sucumbios	[24], [27], [44], [60], [119], [120]
<i>Cephalotes basalis</i> (Smith 1876)	S.Domingo	[27]
<i>Cephalotes cordatus</i> (Smith 1853)	Orellana	[119]
<i>Cephalotes depressus</i> (Klug 1824)	Sucumbios	[27], [120]
<u><i>Cephalotes ecuadorialis</i></u> De Andrade & Baroni Urbani 1999	Imbabura, Pichincha	[27]
<i>Cephalotes laminatus</i> (Smith 1860)	Orellana	[119]
<i>Cephalotes maculatus</i> (Smith 1876)	M.Santiago, Orellana	[27], [119]
<i>Cephalotes manni</i> (Kempf 1951)	Orellana	[119]
<i>Cephalotes marginatus</i> (Fabricius 1804)	Orellana	[119]
<i>Cephalotes minutus</i> (Fabricius 1804)	Orellana	[106], [119]
<i>Cephalotes opacus</i> Santschi 1920	Orellana, Sucumbios	[27], [119], [120]
<i>Cephalotes pallidus</i> De Andrade & Baroni Urbani 1999	Orellana	[119]
<i>Cephalotes pavonii</i> (Latreille 1809)	Orellana	[119]
<i>Cephalotes peruviansis</i> De Andrade & Baroni Urbani 1999	Orellana	[119]
<i>Cephalotes porrasi</i> (Wheeler 1942)	Los Ríos	[27]
<i>Cephalotes pusillus</i> (Klug 1824)	unknown	[27], [44]
<i>Cephalotes ramiphilus</i> (Forel 1904)	Napo, Orellana	[27], [119]
<i>Cephalotes scutulatus</i> (Smith 1867)	Esmeraldas	[27]
<i>Cephalotes spinosus</i> (Mayr 1862)	Orellana, Pastaza, Sucumbios	[27], [44], [72], [119], [120]
<i>Cephalotes umbraculatus</i> (Fabricius 1804)	Orellana, Sucumbios	[119], [120]
<i>Cerapachys</i>		
<i>Cerapachys neotropicus</i> Weber 1939	Sucumbios	[72], [120]
<i>Cheliomyrmex</i>		
<i>Cheliomyrmex andicola</i> Emery 1894	Orellana	[107], [108], [137]
<i>Cheliomyrmex audax</i> Santschi 1921	unknown	[4], [137]
<i>Cheliomyrmex morosus</i> Smith 1859	unknown	[123]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Crematogaster</i>		
<i>Crematogaster acuta</i> (Fabricius 1804)	Orellana, Sucumbios	[118], [119], [120]
<i>Crematogaster brasiliensis</i> Mayr 1878	Orellana, Sucumbios	[87], [118], [119], [120]
<i>Crematogaster brevispinosa</i> Mayr 1870	El Oro	[121]
<i>Crematogaster bryophilia</i> Longino 2003	unknown	[87]
<i>Crematogaster carinata</i> Mayr 1862	Orellana	[87], [106], [118], [119]
<i>Crematogaster crinosa</i> Mayr 1862	Sucumbios	[87], [120]
<i>Crematogaster crucis</i> Forel 1912	Orellana	[119]
<i>Crematogaster curvispinosa</i> Mayr 1862	Orellana, Sucumbios	[87], [119], [120]
<i>Crematogaster distans</i> Mayr 1870	unknown	[87]
<i>Crematogaster egregior</i> Forel 1912	Orellana, Sucumbios	[119], [120]
<i>Crematogaster erecta</i> Mayr 1866	Orellana, Sucumbios	[87], [106], [118], [119], [120]
<i>Crematogaster flavomicrops</i> Longino 2003	Orellana	[87], [106], [118], [119]
<i>Crematogaster foliocrypta</i> Longino 2003	Orellana	[119]
<i>Crematogaster</i> JTL-022 Longino Morphospecies	Orellana	[119]
<i>Crematogaster</i> JTL-026 Longino Morphospecies	Orellana	[119]
<i>Crematogaster</i> JTL-034 Longino Morphospecies	Orellana	[119]
<i>Crematogaster levior</i> Longino 2003	Orellana	[87], [106], [117], [118], [119]
<i>Crematogaster limata</i> Smith 1858	Orellana, Sucumbios	[87], [106], [118], [119], [120]
<i>Crematogaster longispina</i> Emery 1890	Pichincha, Sucumbios	[60], [87], [120]
<u><i>Crematogaster longispina naumannae</i></u> Forel 1921	Pichincha	[70]
<u><i>Crematogaster mancocapaci</i></u> Santschi 1911	El Oro	[70], [87], [122]
<i>Crematogaster montezumia</i> Smith 1858	Guayas	[44], [58], [87]
<i>Crematogaster nigropilosa</i> Mayr 1870	Orellana	[87], [106], [119]
<i>Crematogaster rochai</i> Forel 1903	Orellana	[119]
<i>Crematogaster sotobosque</i> Longino 2003	Orellana	[87], [106], [118], [119]
<i>Crematogaster stollii</i> Forel 1885	Orellana, Sucumbios	[87], [106], [118], [119], [120]
<i>Crematogaster tenuicula</i> Forel 1904	Orellana	[106], [119]
<i>Cryptopone</i>		
<i>Cryptopone guianensis</i> (Weber 1939)	Los Ríos	[99]
<i>Cylindromyrmex</i>		
<i>Cylindromyrmex godmani</i> Forel 1899	Orellana	[18], [59], [119]
<i>Cylindromyrmex striatus</i> Mayr 1870	Guayas, Los Ríos	[18], [44]
<i>Cylindromyrmex whympersi</i> (Cameron 1891)	Guayas	[26]
<i>Cyphomyrmex</i>		
<i>Cyphomyrmex bigibbosus</i> Emery 1894	Sucumbios	[120]
<i>Cyphomyrmex cornutus</i> Kempf 1968	Cañar, Los Ríos	[129]
<i>Cyphomyrmex costatus</i> Mann 1922	Orellana	[106], [119]
<i>Cyphomyrmex kirbyi</i> Mayr 1887	Guayas	[123]
<i>Cyphomyrmex laevigatus</i> Weber 1938	Orellana, Sucumbios	[106], [118], [119], [120]
<i>Cyphomyrmex muelleri</i> Schultz & Solomon 2002	Esmeraldas	[125]
<i>Cyphomyrmex salvini</i> Forel 1899	Los Ríos	[129]

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Species	Provinces	Cited in
Daceton		
<i>Daceton armigerum</i> (Latreille 1802)	Orellana, Sucumbios	[3]
Dinoponera		
<i>Dinoponera longipes</i> Emery 1901	Pastaza	[86]
Discothyrea		
<i>Discothyrea denticulata</i> Weber 1939	Orellana	[106], [119]
<i>Discothyrea horni</i> Menozzi 1927	Orellana	[106], [119]
<i>Discothyrea sexarticulata</i> Borgmeier 1954	Orellana	[106], [119]
Dolichoderus		
<i>Dolichoderus abruptus</i> (Smith 1858)	Pichincha, Sucumbios	[70], [95], [102], [120], [128]
<i>Dolichoderus attelaboides</i> (Fabricius 1775)	Orellana, Sucumbios	[24], [119], [120]
<i>Dolichoderus baenae</i> Mackay 1993	Pichincha	[110]
<i>Dolichoderus bidens</i> (Linnaeus 1758)	Orellana, Sucumbios	[119], [120]
<i>Dolichoderus bispinosus</i> (Olivier 1792)	Orellana, Sucumbios	[67], [120]
<i>Dolichoderus decollatus</i> Smith 1858	Orellana, Sucumbios	[119], [120]
<i>Dolichoderus diversus</i> Emery 1894	Orellana, Sucumbios	[119], [120]
<i>Dolichoderus gagates</i> Emery 1890	Sucumbios	[120]
<i>Dolichoderus germaini</i> Emery 1894	Sucumbios	[120]
<i>Dolichoderus imitator</i> Emery 1894	Orellana, Sucumbios	[106], [118], [119], [120]
<i>Dolichoderus inpai</i> (Harada 1987)	Orellana	[118], [119]
<i>Dolichoderus lamellosus</i> (Mayr 1870)	Orellana, Sucumbios	[119], [120]
<i>Dolichoderus laminatus</i> (Mayr 1870)	Orellana	[119]
<i>Dolichoderus lobicornis</i> (Kempf 1959)	Orellana	[119]
<i>Dolichoderus lugens</i> Emery 1894	Sucumbios	[110], [120]
<i>Dolichoderus lutosus</i> (Smith 1858)	Orellana, Sucumbios	[119], [120]
<i>Dolichoderus quadridenticulatus</i> (Roger 1862)	Orellana, Sucumbios	[119], [120]
<i>Dolichoderus rosenbergi</i> Forel 1911	Esmeraldas	[59], [70], [128]
<i>Dolichoderus rugosus</i> (Smith 1858)	Orellana, Pichincha, Sucumbios	[44], [60], [106], [118], [119], [120]
<i>Dolichoderus septemspinosus</i> Emery 1894	Sucumbios	[120]
<i>Dolichoderus shattucki</i> Mackay 1993	Orellana, Pichincha	[110], [119], [128]
<i>Dolichoderus validus</i> (Kempf 1959)	Orellana	[119]
<i>Dolichoderus varians</i> Mann 1916	Orellana, Sucumbios	[119], [120]
Dolopomyrmex		
<i>Dolopomyrmex</i> KTRW-001 Kari Ryder Morphospecies	Orellana	[117]
Eciton		
<i>Eciton burchellii</i> (Westwood 1842)	El Oro, Los Ríos, Napo, Orellana, Z.Chinchipe	[23], [24], [40], [66], [68], [107], [108], [146]
<i>Eciton burchellii foreli</i> Mayr 1886	Guayas, M.Santiago	[137]
<i>Eciton drepanophorum</i> Smith 1858	unknown	[8], [44], [60], [137]
<i>Eciton dulcium</i> Forel 1912	Sucumbios	[40], [148]

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Species	Provinces	Cited in
<i>Eciton</i>		
<i>Eciton hamatum</i> (Fabricius 1782)	Guayas, Los Ríos, Orellana, Pastaza, Pichincha, Sucumbios	[36], [39], [44], [60], [73], [106], [108], [109], [119], [137], [148]
<i>Eciton jansonii</i> Forel 1912	unknown	[137]
<i>Eciton lucanoides</i> Emery 1894	Sucumbios	[42], [148]
<i>Eciton mexicanum</i> Roger 1863	Orellana, Sucumbios	[24], [39], [40], [109], [148]
<i>Eciton rapax</i> Smith 1855	Orellana, Sucumbios	[19], [40], [108], [109], [137]
<i>Eciton uncinatum</i> Borgmeier 1953	Chimborazo	[8], [45], [70], [137]
<i>Eciton vagans</i> (Olivier 1792)	Orellana, Sucumbios	[74], [106], [119]
<i>Ectatomma</i>		
<i>Ectatomma brunneum</i> Smith 1858	Guayas	[26], [44]
<i>Ectatomma edentatum</i> Roger 1863	Orellana, Sucumbios	[106], [118], [119], [120]
<i>Ectatomma goninion</i> Kugler & Brown 1982	Esmeraldas, Los Ríos, Pichincha, S.Domingo, Sucumbios	[24], [78], [120]
<i>Ectatomma lugens</i> Emery 1894	Orellana, Sucumbios	[67], [106], [118], [119], [120]
<i>Ectatomma opaciventre</i> (Roger 1861)	Napo	[2]
<i>Ectatomma ruidum</i> (Roger 1860)	Guayas, Pichincha, Sucumbios	[16], [33], [54], [78], [112], [120],
<i>Ectatomma tuberculatum</i> (Olivier 1792)	Orellana, Sucumbios	[67], [106], [119], [120]
<i>Eurhopalothrix</i>		
<i>Eurhopalothrix alopeciosa</i> Brown & Kempf 1960	Sucumbios	[72], [120]
<i>Gigantiops</i>		
<i>Gigantiops destructor</i> (Fabricius 1804)	Orellana, Sucumbios	[106], [118], [119], [120]
<i>Gnamptogenys</i>		
<i>Gnamptogenys aculeaticoxae</i> (Santschi 1921)	Sucumbios	[120]
<i>Gnamptogenys acuminata</i> (Emery 1896)	Sucumbios	[120]
<i>Gnamptogenys acuta</i> (Brown 1956)	Pastaza	[82], [85]
<i>Gnamptogenys alfaroi</i> (Emery 1894)	Guayas	[82], [85]
<i>Gnamptogenys andina</i> Lattke 1995	Bolívar	[82], [85]
<i>Gnamptogenys annulata</i> (Mayr 1887)	Los Ríos, M.Santiago, Napo, Pichincha, S.Domingo	[16], [33], [44], [82], [85], [122]
<i>Gnamptogenys banksi</i> (Wheeler 1930)	Guayas	[82], [85]
<i>Gnamptogenys bisulca</i> Kempf & Brown 1968	Pichincha, S.Domingo	[33], [82], [85], [115]
<i>Gnamptogenys concinna</i> (Smith 1858)	Orellana, Sucumbios	[119], [120]
<i>Gnamptogenys continua</i> (Mayr 1887)	Orellana, Pichincha, S.Domingo	[67], [82], [85], [115]
<i>Gnamptogenys extra</i> Lattke 1995	Pichincha, S.Domingo	[82], [85]
<i>Gnamptogenys falcifera</i> Kempf 1967	Sucumbios	[81]
<i>Gnamptogenys fernandezi</i> Lattke 1990	M.Santiago	[82], [85]
<i>Gnamptogenys haenschi</i> (Emery 1902)	Napo, Orellana, Sucumbios	[16], [44], [70], [82], [85], [106], [117], [119], [120]
<i>Gnamptogenys horni</i> (Santschi 1929)	El Oro, Esmeraldas, Los Ríos, M.Santiago, Orellana	[82], [85], [104], [106], [118], [119]
<i>Gnamptogenys kempfi</i> Lenko 1964	Orellana	[106], [119]

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Species	Provinces	Cited in
<i>Gnamptogenys</i>		
<i>Gnamptogenys lanei</i> Kempf 1960	Sucumbios	[120]
<u><i>Gnamptogenys laticephala</i></u> Lattke 1995	Guayas	[82], [85]
<i>Gnamptogenys mecotyle</i> Brown 1958	Napo, Sucumbios	[85], [120]
<i>Gnamptogenys mediatrix</i> Brown 1958	Orellana	[106], [119]
<i>Gnamptogenys mina</i> (Brown 1956)	Napo, Orellana	[85], [106], [119]
<i>Gnamptogenys minuta</i> (Emery 1896)	El Oro, Los Ríos, Napo, Orellana, Pichincha, Sucumbios	[13], [33], [81], [85], [106], [119]
<i>Gnamptogenys moelleri</i> (Forel 1912)	Cotopaxi, Orellana, Sucumbios	[82], [85], [104], [106], [118], [119]
<i>Gnamptogenys mordax</i> (Smith 1858)	M.Santiago, Napo	[85], [120]
<i>Gnamptogenys perspicax</i> Kempf & Brown 1970	El Oro, Los Ríos	[82], [85]
<i>Gnamptogenys pleurodon</i> (Emery 1896)	Napo, Orellana, Sucumbios	[82], [85], [106], [119], [120]
<i>Gnamptogenys porcata</i> (Emery 1896)	Pichincha, S.Domingo	[82], [85]
<i>Gnamptogenys regularis</i> Mayr 1870	El Oro, Los Ríos, Orellana, S.Domingo, Sucumbios	[44], [54], [59], [82], [85], [119], [120]
<i>Gnamptogenys simulans</i> (Emery 1896)	Orellana	[106], [119]
<i>Gnamptogenys striatula</i> Mayr 1884	M.Santiago, Orellana, Sucumbios	[82], [85], [104], [106], [118], [119]
<i>Gnamptogenys strigata</i> (Norton 1868)	Bolívar	[76]
<i>Gnamptogenys sulcata</i> (Smith 1858)	Los Ríos, Orellana, Pichincha, S.Domingo	[82], [85], [106], [119]
<i>Gnamptogenys teffensis</i> (Santschi 1929)	Sucumbios	[120]
<i>Gnamptogenys tortuolosa</i> (Smith 1858)	M.Santiago, Pichincha	[16], [60], [82], [85], [120]
<i>Gnamptogenys triangularis</i> (Mayr 1887)	El Oro, Los Ríos	[32], [82], [85]
<u><i>Gnamptogenys vriesi</i></u> Brandão & Lattke 1990	M.Santiago	[12], [13], [81], [127]
<i>Hylomyrma</i>		
<i>Hylomyrma balzani</i> (Emery 1894)	Napo	[64]
<i>Hylomyrma blandiens</i> Kempf 1961	Orellana	[106], [118], [119]
<i>Hylomyrma dolichops</i> Kempf 1973	Orellana	[106], [118], [119]
<i>Hylomyrma immanis</i> Kempf 1973	Orellana	[106], [118], [119]
<i>Hylomyrma longiscapa</i> Kempf 1961	Sucumbios	[72]
<i>Hylomyrma praepotens</i> Kempf 1973	Orellana	[67], [106], [119]
<i>Hylomyrma sagax</i> Kempf 1973	Orellana	[106], [119]
<i>Hypoponera</i>		
<i>Hypoponera distinguenda</i> (Emery 1890)	Pichincha, S.Domingo, Sucumbios	[33], [115], [120]
<i>Hypoponera perplexa</i> (Mann 1922)	Orellana	[106], [118], [119]
<i>Hypoponera trigona</i> (Mayr 1887)	Pichincha	[33]
<i>Kempfidris</i>		
<i>Kempfidris inusuale</i> (Fernandez 2007)	Sucumbios	[50], [51],
<i>Labidus</i>		
<i>Labidus coecus</i> (Latreille 1802)	Orellana, Pichincha, S.Domingo, Sucumbios	[8], [33], [35], [44], [66], [67], [106], [108], [117], [119], [122], [137]
<i>Labidus coecus</i> (Latreille 1802)	Guayas, S.Domingo	[54], [58], [59], [122]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
Labidus		
<i>Labidus curvipes</i> (Emery 1900)	unknown	[137]
<i>Labidus praedator</i> (Smith 1858)	Esmeraldas, Orellana, Sucumbios	[24], [35], [36], [37], [41], [42], [68], [107], [108], [109], [118], [119], [137]
<i>Labidus spininodis</i> (Emery 1890)	Orellana, Pichincha	[33], [66], [67], [108], [118]
Lachnomyrmex		
<i>Lachnomyrmex pilosus</i> Weber 1950	M.Santiago, Sucumbios	[46], [120]
<i>Lachnomyrmex scrobiculatus</i> Wheeler 1910	Orellana	[106], [119]
Lenomyrmex		
<i>Lenomyrmex foveolatus</i> Fernández & Palacio 1999	Pichincha, S.Domingo	[33], [115]
<i>Lenomyrmex inusitatus</i> Fernandez 2001	Z.Chinchipe	[29]
<i>Lenomyrmex wardi</i> Fernandez & Palacio 1999	Pichincha	[53]
Leptanilloides		
<u><i>Leptanilloides caracola</i> Donoso, Vieira & Wild 2006</u>	Cotopaxi	[34]
<u><i>Leptanilloides erinys</i> Borowiec & Longino 2011</u>	Napo	[9]
<u><i>Leptanilloides improvisa</i> Brandão, Diniz, Agosti & Delabie 1999</u>	Cotopaxi	[13]
<u><i>Leptanilloides nomada</i> Donoso, Vieira & Wild 2006</u>	Cotopaxi	[34], [45]
<u><i>Leptanilloides nubecula</i> Donoso, Vieira & Wild 2006</u>	Cotopaxi, S.Domingo	[34], [115]
Leptogenys		
<i>Leptogenys amazonica</i> Borgmeier 1930	M.Santiago, Orellana	[84]
<u><i>Leptogenys ciliata</i> Lattke 2011</u>	Pichincha	[84]
<i>Leptogenys cuneata</i> Lattke 2011	M.Santiago	[84]
<i>Leptogenys famelica</i> Emery 1896	Los Ríos	[84]
<i>Leptogenys gaigei</i> Wheeler 1923	Los Ríos, M.Santiago, Orellana	[84], [106], [119]
<i>Leptogenys gorgona</i> Lattke 2011	Los Ríos	[84]
<i>Leptogenys imperatrix</i> Mann 1922	Orellana	[106], [119]
<i>Leptogenys langi</i> Wheeler 1923	M.Santiago	[84]
<i>Leptogenys nigricans</i> Lattke 2011	M.Santiago, Orellana, Sucumbios	[84], [106]
<i>Leptogenys phylloba</i> Lattke 2011	Sucumbios	[84]
<u><i>Leptogenys pucuna</i> Lattke 2011</u>	Pichincha	[84]
<i>Leptogenys quadrata</i> Lattke 2011	Los Ríos	[84]
<i>Leptogenys rasila</i> Lattke 2011	Los Ríos	[84]
<i>Leptogenys ritae</i> Forel 1899	Orellana	[84], [106], [119]
<i>Leptogenys unistimulosa</i> Roger 1863	M.Santiago, Orellana, Sucumbios	[84], [120]
Linepithema		
<i>Linepithema angulatum</i> (Emery 1894)	Napo, Pichincha, Tungurahua	[144], [145]
<i>Linepithema fuscum</i> Mayr 1866	Napo	[144]
<i>Linepithema humile</i> (Mayr 1868)	Pichincha	[32], [134], [139], [142], [144]
<i>Linepithema iniquum</i> (Mayr 1870)	Pichincha, S.Domingo, Tungurahua	[144], [145]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Linepithema</i>		
<i>Linepithema neotropicum</i> Wild 2007	Napo	[144], [145]
<i>Linepithema piliferum</i> (Mayr 1870)	Napo, Pastaza, Pichincha	[144], [145]
<i>Linepithema tsachila</i> Wild 2007	Los Ríos, Orellana, Pichincha, S.Domingo	[144], [145]
<i>Mayaponera</i>		
<i>Mayaponera constricta</i> (Mayr 1884)	Napo, Orellana, Pastaza, Sucumbios	[67], [99], [106], [118], [119], [120]
<i>Megalomyrmex</i>		
<i>Megalomyrmex balzani</i> Emery 1894	Orellana	[106], [119]
<i>Megalomyrmex bidentatus</i> Fernandez & Baena 1997	Pichincha, S.Domingo	[33], [115], [133]
<i>Megalomyrmex brandaoi</i> Boudinot, Sumnicht & Adams 2013	Napo	[10]
<u><i>Megalomyrmex caete</i> Brandão 1990</u>	Guayas	[11]
<i>Megalomyrmex cuatiara</i> Brandão 1990	Orellana, Sucumbios	[104], [106], [119], [133]
<i>Megalomyrmex cupecuara</i> Brandão 1990	S.Domingo	[11]
<i>Megalomyrmex cyendyra</i> Brandão 1990	Imbabura	[133]
<i>Megalomyrmex drifti</i> Kempf 1961	Cotopaxi, El Oro, Los Ríos, Sucumbios	[10], [11]
<i>Megalomyrmex foreli</i> Emery 1890	Napo, Orellana, Sucumbios	[11], [65], [67], [106], [117], [118], [119]
<i>Megalomyrmex glaesarius</i> Kempf 1970	Cotopaxi, Napo	[11], [133]
<i>Megalomyrmex incisus</i> Smith 1947	M.Santiago, Orellana, Pastaza, S.Domingo	[10], [11], [106], [115], [119]
<i>Megalomyrmex leoninus</i> Forel 1885	Napo, Orellana	[133]
<i>Megalomyrmex modestus</i> Emery 1896	Cotopaxi	[133]
<i>Megalomyrmex mondabora</i> Brandão 1990	Orellana	[106], [119]
<i>Megalomyrmex mondaboroides</i> Longino 2010	Orellana, S.Domingo	[91]
<u><i>Megalomyrmex piriana</i> Brandão 1990</u>	S.Domingo	[11]
<i>Megalomyrmex silvestrii</i> Wheeler 1909	Los Ríos, Orellana, Pastaza, Pichincha, Sucumbios	[11], [33], [106], [118], [119]
<i>Megalomyrmex staudingeri</i> Emery 1890	Pastaza	[133]
<u><i>Megalomyrmex tasyba</i> Brandão 1990</u>	Sucumbios	[11]
<i>Megalomyrmex timbira</i> Brandão 1990	Orellana	[106], [119]
<i>Monomorium</i>		
<i>Monomorium floricola</i> (Jerdon 1851)	Orellana	[32], [119]
<i>Monomorium pharaonis</i> (Linnaeus 1758)	Orellana, Pichincha	[32]
<i>Mycetarotes</i>		
<i>Mycetarotes acutus</i> Mayhé-Nunes 1995	Orellana	[106], [119]
<i>Mycetarotes senticosus</i> Kempf 1960	Orellana	[67]
<i>Mycocepurus</i>		
<i>Mycocepurus smithii</i> Forel 1893	Orellana	[106], [118], [119]
<i>Myrmelachista</i>		
<i>Myrmelachista plebecula</i> Menozzi 1927	Guayas	[88]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
Myrmica		
<i>Myrmica rubra</i> Buckley 1866	S.Domingo	[122]
Myrmicocrypta		
<i>Myrmicocrypta longinoda</i> Weber 1938	Orellana	[106], [119]
Neivamyrmex		
<i>Neivamyrmex adnepos</i> (Wheeler 1922)	unknown	[137]
<i>Neivamyrmex cristatus</i> (André 1889)	Orellana, Sucumbios	[39], [44], [107], [108], [137]
<i>Neivamyrmex diana</i> (Forel 1912)	unknown	[137]
<i>Neivamyrmex emersoni</i> (Wheeler 1921)	unknown	[137]
<i>Neivamyrmex falcifer</i> (Emery 1900)	unknown	[44], [137]
<i>Neivamyrmex gibbatus</i> Borgmeier 1953	Orellana	[109], [137]
<i>Neivamyrmex halidaii</i> (Shuckard 1840)	unknown	[137]
<i>Neivamyrmex legionis</i> (Smith 1855)	unknown	[38]
<u><i>Neivamyrmex planidens</i></u> Borgmeier 1953	Bolívar	[8], [45], [70], [137]
<i>Neivamyrmex pseudops</i> (Forel 1909)	Orellana	[106], [119]
<i>Neivamyrmex punctaticeps</i> (Emery 1894)	Orellana	[106], [117], [119]
<i>Neivamyrmex rosenbergi</i> Forel 1911	Esmeraldas	[8], [59], [137]
Neoponera		
<i>Neoponera aenescens</i> (Mayr 1870)	M.Santiago, Orellana, Pichincha	[99], [119]
<i>Neoponera apicalis</i> (Latreille 1802)	Guayas, Los Ríos, M.Santiago, Napo, Orellana, Pastaza, Pichincha, S.Elena, S.Domingo, Sucumbios	[33], [44], [67], [99], [106], [118], [119], [120], [122], [143]
<i>Neoponera bugabensis</i> (Forel 1899)	Guayas, Pichincha, S.Domingo	[99]
<u><i>Neoponera carbonaria</i></u> (Smith 1858)	Carchi, Imbabura, Pichincha	[56], [70], [99], [111], [122]
<i>Neoponera carinulata</i> (Roger 1861)	Orellana, Pastaza, Pichincha, Sucumbios	[99], [119], [120]
<i>Neoponera cavinodis</i> Mann 1916	Orellana, Sucumbios	[99], [119], [120]
<i>Neoponera chyzeri</i> (Forel 1907)	Cotopaxi, Imbabura, Pichincha	[33], [99]
<i>Neoponera commutata</i> (Roger 1860)	Orellana, Pastaza, Pichincha, Sucumbios, Tungurahua	[24], [44], [60], [99], [120], [141]
<i>Neoponera cooki</i> (Mackay & Mackay 2010)	Sucumbios	[99]
<i>Neoponera crenata</i> (Roger 1861)	Orellana, Pastaza, S.Domingo, Sucumbios	[99], [119], [120]
<i>Neoponera curvinodis</i> (Forel 1899)	Sucumbios	[99]
<u><i>Neoponera donosoi</i></u> (Mackay & Mackay 2010)	Pichincha	[99]
<u><i>Neoponera eleonorae</i></u> (Forel 1921)	Pichincha, Tungurahua	[60], [70], [99]
<i>Neoponera fauveli</i> (Emery 1895)	Napo, Pastaza, Pichincha, Tungurahua	[44], [55], [99]
<i>Neoponera foetida</i> (Linnaeus 1758)	Los Ríos, Orellana, Sucumbios	[99], [119]
<i>Neoponera globularia</i> (Mackay & Mackay 2010)	Orellana, Pichincha, Sucumbios	[99]
<i>Neoponera goeldii</i> Forel 1912	Napo, Sucumbios	[99]
<i>Neoponera hispida</i> (Mackay & Mackay 2010)	Cotopaxi	[99]
<i>Neoponera inversa</i> (Smith 1858)	Los Ríos, Napo, Orellana, Pastaza	[99], [106], [119]
<i>Neoponera laevigata</i> (Smith 1858)	M.Santiago, Orellana	[99], [106], [118], [119], [141]
<i>Neoponera marginata</i> (Roger 1861)	Orellana	[118], [119]
<i>Neoponera oberthueri</i> (Emery 1890)	Orellana, Sucumbios	[99], [119], [120]

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Species	Provinces	Cited in
<i>Neoponera</i>		
<i>Neoponera obscuricornis</i> (Emery 1890)	Esmeraldas, Los Ríos, Napo, Orellana, Pichincha, Sucumbios	[60], [67], [99], [118], [119], [120], [143]
<i>Neoponera rostrata</i> (Emery 1890)	Orellana	[99], [119]
<i>Neoponera rugosula</i> Emery 1902	Orellana	[99]
<u><i>Neoponera schoedli</i></u> (Mackay & Mackay 2006)	Cotopaxi, Pichincha	[97], [99], [127]
<i>Neoponera striatinodis</i> (Emery 1890)	Orellana	[119]
<i>Neoponera unidentata</i> (Mayr 1862)	M.Santiago, Napo, Orellana, Pastaza, Pichincha, S.Domingo, Sucumbios	[44], [99], [119], [120]
<i>Neoponera verena</i> Forel 1922	Los Ríos, Napo, Orellana, Pichincha, S.Domingo, Sucumbios	[33], [99], [106], [118], [119], [143]
<i>Neoponera villosa</i> (Fabricius 1804)	M.Santiago, Napo, Orellana, Pastaza, Pichincha, Sucumbios, Tungurahua	[44], [60], [99], [119], [120]
<i>Nesomyrmex</i>		
<i>Nesomyrmex argentinus</i> (Santschi 1922)	Orellana	[119]
<i>Nesomyrmex asper</i> (Mayr 1887)	Orellana	[119]
<i>Nesomyrmex brasiliensis</i> (Kempf 1958)	Orellana	[119]
<i>Nesomyrmex costatus</i> (Emery 1896)	Orellana	[119]
<i>Nesomyrmex echinatinodis</i> (Forel 1886)	Orellana	[119]
<i>Nesomyrmex pleuriticus</i> (Kempf 1959)	Orellana	[119]
<i>Nesomyrmex rutilans</i> (Kempf 1958)	Orellana	[119]
<i>Nesomyrmex spininodis</i> (Mayr 1887)	Orellana	[119]
<i>Nomamyrmex</i>		
<i>Nomamyrmex esenbeckii</i> (Westwood 1842)	Orellana	[106], [107], [108], [118], [119]
<i>Ochetomyrmex</i>		
<i>Ochetomyrmex neopolitus</i> Fernandez 2003	Orellana, Sucumbios	[48], [106], [118], [119], [120]
<i>Ochetomyrmex semipolitus</i> Mayr 1878	Orellana	[106], [117], [118], [119]
<i>Ochetomyrmex subpolita</i> (Wheeler 1916)	Sucumbios	[72]
<i>Octostruma</i>		
<i>Octostruma ascribicula</i> Longino 2013	Manabi	[93]
<i>Octostruma balzani</i> (Emery 1894)	Orellana	[104]
<i>Octostruma batesi</i> (Emery 1894)	unknown	[93]
<i>Octostruma iheringi</i> (Emery 1888)	Orellana	[106], [119]
<u><i>Octostruma onorei</i></u> (Baroni Urbani & De Andrade 2007)	Tungurahua	[6], [93]
<i>Octostruma stenoscapa</i> Palacio 1997	unknown	[93]
<i>Odontomachus</i>		
<i>Odontomachus bauri</i> Emery 1892	Esmeraldas, Pichincha, S.Domingo, Sucumbios	[19], [24], [33], [115], [120]
<i>Odontomachus biumbonatus</i> Brown 1976	Orellana, Sucumbios	[19], [106], [117], [119], [120], [127]
<i>Odontomachus bradleyi</i> Brown 1976	Napo	[20]
<i>Odontomachus brunneus</i> (Patton 1894)	Sucumbios	[120]

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Species	Provinces	Cited in
<i>Odontomachus</i>		
<i>Odontomachus caelatus</i> Brown 1976	Sucumbios	[19], [120], [127]
<u><i>Odontomachus cornutus</i></u> Stitz 1933	Guayas	[19], [70], [75], [131]
<i>Odontomachus erythrocephalus</i> Emery 1890	unknown	[19]
<i>Odontomachus haematodus</i> (Linnaeus 1758)	Guayas, Orellana, Sucumbios	[19], [26], [44], [54], [59], [67], [106], [118], [119], [120],
<i>Odontomachus hastatus</i> (Fabricius 1804)	Esmeraldas, Orellana, Sucumbios	[24], [119], [120]
<i>Odontomachus laticeps</i> Roger 1861	Sucumbios	[120]
<i>Odontomachus mayi</i> Mann 1912	Orellana, Sucumbios	[119], [120]
<i>Odontomachus meinerti</i> Forel 1905	Orellana, Sucumbios	[19], [67], [104], [106], [118], [119], [120]
<u><i>Odontomachus mormo</i></u> Brown 1976	Guayas, Los Ríos, Pichincha	[12], [19], [20], [127]
<i>Odontomachus opaciventris</i> Forel 1899	unknown	[59]
<i>Odontomachus panamensis</i> Forel 1899	Orellana	[67], [106], [118], [119]
<i>Odontomachus ruginodis</i> Smith 1937	Sucumbios	[120]
<i>Odontomachus scalptus</i> Brown 1978	Napo	[12], [20]
<i>Odontomachus yucatecus</i> Brown 1976	Orellana	[106], [119]
<i>Oxyepoecus</i>		
<i>Oxyepoecus ephippiatus</i> Albuquerque & Brandão 2004	Orellana	[106], [119]
<i>Oxyepoecus quadratus</i> Albuquerque & Brandão 2004	Sucumbios	[1]
<i>Pachycondyla</i>		
<i>Pachycondyla crassinoda</i> (Latreille 1802)	M.Santiago, Orellana, Pastaza, Pichincha, Sucumbios	[24], [60], [67], [99], [106], [117], [118], [119], [120]
<i>Pachycondyla fuscoatra</i> (Roger 1861)	S.Domingo	[122]
<i>Pachycondyla harpax</i> (Fabricius 1894)	Imbabura, Los Ríos, M.Santiago, Orellana, Pastaza, Pichincha, S.Elena, S.Domingo, Sucumbios, Tungurahua, Z.Chinchi	[33], [44], [67], [99], [106], [115], [118], [119], [120]
<i>Pachycondyla impressa</i> (Roger 1861)	Cotopaxi, Esmeraldas, Guayas, Imbabura, Los Ríos, Napo, Orellana, Pichincha, S. Domingo, Sucumbios, Tungurahua	[24], [33], [99], [117], [119]
<i>Pachycondyla striata</i> Smith 1858	Orellana	[67]
<u><i>Pachycondyla vieirai</i></u> Mackay & Mackay 2010	Los Ríos	[99]
<i>Paraponera</i>		
<i>Paraponera clavata</i> (Fabricius 1775)	Orellana, S.Domingo, Sucumbios	[24], [44], [62], [106], [119], [120], [122], [149]
<i>Paratrechina</i>		
<i>Paratrechina longicornis</i> (Latreille 1802)	Azuay, S.Domingo	[32], [115], [122]
<i>Pheidole</i>		
<i>Pheidole ademonia</i> Wilson 2003	Orellana	[67], [104], [105], [106], [119], [147]
<i>Pheidole allarmata</i> Wilson 2003	Napo, Orellana	[67], [103], [104], [105], [106], [119], [147]

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Species	Provinces	Cited in
<i>Pheidole</i>		
<u><i>Pheidole alpestris</i></u> Wilson 2003	Pichincha	[147]
<i>Pheidole amazonica</i> Wilson 2003	Napo, Orellana	[103], [104], [105], [106], [117], [118], [119], [147]
<i>Pheidole araneoides</i> Wilson 2003	Orellana	[105], [118], [119]
<i>Pheidole astur</i> Wilson 2003	Orellana	[67], [105], [106], [118], [119], [147]
<i>Pheidole biconstricta</i> Mayr 1870	Orellana	[67], [104], [105], [106], [117], [118], [119]
<i>Pheidole bufo</i> Wilson 2003	Orellana	[67], [147]
<u><i>Pheidole bulliceps</i></u> Wilson 2003	Napo	[147]
<u><i>Pheidole cameroni</i></u> Mayr 1887	Bolívar, Carchi, Chimborazo, Pichincha, S.Domingo	[26], [70], [121], [122], [147]
<u><i>Pheidole camilla</i></u> Wilson 2003	Pichincha	[147]
<i>Pheidole caracalla</i> Wilson 2003	Orellana	[147]
<i>Pheidole cardiella</i> Wilson 2003	Manabi, Orellana, Pichincha	[67], [147]
<i>Pheidole cataractae</i> Wheeler 1916	Orellana	[103], [104], [105]
<i>Pheidole chalcoides</i> Wilson 2003	El Oro	[147]
<i>Pheidole cramptoni</i> Wheeler 1916	Orellana	[67], [103], [104], [105], [106], [119]
<u><i>Pheidole crinita</i></u> Wilson 2003	M.Santiago	[147]
<i>Pheidole cursor</i> Wilson 2003	Orellana	[105]
<i>Pheidole deima</i> Wilson 2003	Orellana	[105], [106], [118], [119]
<i>Pheidole diligens</i> (Smith 1858)	Orellana	[67]
<i>Pheidole ectatommoides</i> Wilson 2003	unknown	[147]
<u><i>Pheidole ecuadorana</i></u> Wilson 2003	Pichincha	[147]
<i>Pheidole embolopyx</i> Brown 1868	Orellana	[67], [103], [104], [105], [147]
<i>Pheidole epettrion</i> Wilson 2003	Pichincha	[147]
<i>Pheidole exigua</i> Mayr 1884	Orellana	[106], [119]
<i>Pheidole exquisita</i> Wilson 2003	Pichincha	[147]
<i>Pheidole fimbriata</i> Roger 1863	Orellana	[67], [105], [106], [117], [118], [119]
<i>Pheidole fissiceps</i> Wilson 2003	Orellana	[103], [104], [105]
<i>Pheidole flavens</i> Roger 1863	Orellana	[105]
<i>Pheidole fracticeps</i> Wilson 2003	Orellana	[67], [105], [106], [118], [119], [147]
<i>Pheidole fullerae</i> Wilson 2003	M.Santiago	[147]
<i>Pheidole gagates</i> Wilson 2003	Orellana, Sucumbios	[67], [103], [104], [105], [118], [119], [147]
<i>Pheidole geminata</i> Wilson 2003	Pichincha	[147]
<i>Pheidole gilva</i> Wilson 2003	Orellana	[119]
<i>Pheidole globularia</i> Wilson 2003	Pastaza	[147]
<i>Pheidole gnomus</i> Wilson 2003	Pichincha	[147]
<i>Pheidole guayasana</i> Wilson 2003	Guayas, Los Ríos	[147]
<i>Pheidole haskinsorum</i> Wilson 2003	Orellana	[105], [147]
<i>Pheidole hazenae</i> Wilson 2003	Los Ríos	[147]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Pheidole</i>		
<i>Pheidole horribilis</i> Wilson 2003	Napo, Orellana	[67], [103], [104], [105], [106], [118], [119], [147]
<i>Pheidole huacana</i> Wilson 2003	Orellana	[105]
<i>Pheidole inversa</i> (Forel 1901)	unknown	[122]
<i>Pheidole jivaro</i> Wilson 2003	Napo	[147]
<i>Pheidole laelaps</i> Wilson 2003	Cañar	[147]
<i>Pheidole laidlowi</i> Mann 1916	Orellana	[105], [118], [119]
<i>Pheidole laselva</i> Wilson 2003	Guayas	[89], [90], [147]
<i>Pheidole lemnisca</i> Wilson 2003	Orellana	[103], [104], [105], [106], [119]
<i>Pheidole lupus</i> Wilson 2003	Orellana	[105]
<i>Pheidole meinerti</i> Forel 1905	Orellana	[67], [147]
<i>Pheidole melastomae</i> Wilson 2003	Pichincha	[147]
<i>Pheidole mendicula</i> Wheeler 1925	Orellana	[67], [147]
<i>Pheidole metana</i> Wilson 2003	Orellana	[103], [104], [105], [106], [119]
<i>Pheidole micridris</i> Wilson 2003	Orellana	[104], [105]
<i>Pheidole midas</i> Wilson 2003	Orellana	[67], [104], [105], [106], [118], [119], [147]
<i>Pheidole minutula</i> Mayr 1878	unknown	[147]
<u><i>Pheidole napoensis</i> Wilson 2003</u>	Napo	[147]
<i>Pheidole nitella</i> Wilson 2003	Orellana	[67], [117], [118], [119], [147]
<u><i>Pheidole palenquensis</i> Wilson 2003</u>	Los Ríos	[147]
<i>Pheidole peckorum</i> Wilson 2003	Pastaza	[147]
<i>Pheidole peltastes</i> Wilson 2003	Orellana	[67]
<i>Pheidole peruviana</i> Wilson 2003	Orellana	[67], [105], [106], [117], [118], [119]
<i>Pheidole pholeops</i> Wilson 2003	Orellana	[67], [103], [104], [105], [106], [119], [147]
<i>Pheidole plato</i> Wilson 2003	Pastaza	[147]
<i>Pheidole praeusta</i> Roger 1863	S.Domingo	[122]
<i>Pheidole pubiventris</i> Mayr 1887	Orellana	[119]
<u><i>Pheidole riveti</i> Santschi 1911</u>	Azuay, Carchi	[70], [121], [122], [124], [147]
<i>Pheidole rotundiceps</i> Wilson 2003	S.Domingo	[147]
<i>Pheidole sabella</i> Wilson 2003	Orellana	[106], [119]
<i>Pheidole sagax</i> Wilson 2003	Orellana	[104], [105], [106], [117], [118], [119]
<i>Pheidole sarcina</i> (Forel 1912)	Guayas	[147]
<u><i>Pheidole sarpedon</i> Wilson 2003</u>	Napo, Orellana	[103], [105], [106], [119], [147]
<i>Pheidole scalaris</i> Wilson 2003	Orellana	[103], [105], [106], [119]
<i>Pheidole scolioceps</i> Wilson 2003	Orellana	[104], [105], [106], [119]
<i>Pheidole sospes</i> (Forel 1908)	Orellana	[104], [105]
<i>Pheidole stigma</i> Wilson 2003	Tungurahua	[147]
<i>Pheidole subarmata</i> Mayr 1884	Orellana	[67]
<i>Pheidole tobini</i> Wilson 2003	Orellana	[105], [106], [119]
<i>Pheidole triplex</i> Wilson 2003	Orellana	[105], [106], [118], [119]
<i>Pheidole tristicula</i> Wilson 2003	Orellana	[105], [106], [118], [119], [147]
<i>Pheidole unicornis</i> Wilson 2003	Cañar	[147]
<i>Pheidole viriosa</i> Wilson 2003	Napo	[147]
<i>Pheidole vorax</i> (Fabricius 1804)	Orellana	[103], [105], [106], [118], [119]
<i>Pheidole xanthogaster</i> Wilson 2003	Orellana	[105], [118], [119]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Pheidole</i>		
<i>Pheidole zeteki</i> Smith 1947	Pastaza	[147]
<i>Platythyrea</i>		
<i>Platythyrea angusta</i> Forel 1901	M.Santiago, Orellana	[18], [119]
<i>Platythyrea sinuata</i> (Roger 1860)	El Oro, Sucumbios	[18], [120]
<u><i>Platythyrea zodium</i></u> Brown 1975	Pastaza	[12], [18]
<i>Pogonomyrmex</i>		
<u><i>Pogonomyrmex theresiae</i></u> Forel 1899	Guayas	[52], [54], [70]
<i>Prionopelta</i>		
<i>Prionopelta amabilis</i> Borgmeier 1949	Orellana, Pichincha, S.Domingo	[33], [104], [106], [115], [119]
<i>Prionopelta antillana</i> Forel 1909	Sucumbios	[120]
<i>Prionopelta modesta</i> Forel 1909	S.Domingo	[115]
<i>Prionopelta punctulata</i> Mayr 1866	Orellana	[67]
<i>Probolomyrmex</i>		
<i>Probolomyrmex petiolatus</i> Weber 1940	Orellana	[106], [119]
<i>Proceratium</i>		
<u><i>Proceratium ecuadoriense</i></u> Baroni Urbani & De Andrade 2003	Los Ríos, Pichincha, S.Domingo	[5], [6]
<i>Proceratium micrommatum</i> (Roger 1863)	unknown	[22]
<i>Procryptocerus</i>		
<i>Procryptocerus attenuatus</i> (Smith 1876)	Orellana	[119]
<i>Procryptocerus belti</i> Forel 1899	Los Ríos	[94]
<i>Procryptocerus coriarius</i> (Mayr 1870)	Orellana	[119]
<i>Procryptocerus hirsutus</i> Emery 1896	Sucumbios	[94]
<i>Procryptocerus hylaeus</i> Kempf 1951	Orellana	[119]
<i>Procryptocerus impressus</i> Forel 1899	Orellana	[119]
<i>Procryptocerus mayri</i> Forel 1899	Pichincha	[33]
<i>Procryptocerus nalini</i> Longino & Snelling 2002	Orellana	[119]
<i>Procryptocerus paleatus</i> Emery 1896	Orellana	[119]
<i>Procryptocerus pictipes</i> Emery 1896	Guayas, Los Ríos, Orellana,	[72], [94], [119]
<i>Procryptocerus spiniperdus</i> (Forel 1899)	unknown	[69], [72]
<i>Procryptocerus subpilosus</i> (Smith 1860)	Napo	[94]
<u><i>Procryptocerus virgatus</i></u> Kempf 1964	Pastaza	[70]
<i>Protalaridris</i>		
<u><i>Protalaridris armata</i></u> Brown 1980	Pichincha, S.Domingo	[12], [22], [33], [115]
<i>Pseudomyrmex</i>		
<i>Pseudomyrmex atripes</i> (Smith 1860)	Orellana, Sucumbios	[119], [120]
<i>Pseudomyrmex colei</i> (Enzmann 1944)	Orellana	[119]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
<i>Pseudomyrmex</i>		
<i>Pseudomyrmex curacaensis</i> (Forel 1912)	Sucumbios	[135]
<i>Pseudomyrmex dendroicus</i> (Forel 1904)	M.Santiago, Napo, Sucumbios	[136]
<i>Pseudomyrmex duckei</i> (Forel 1906)	Orellana	[119]
<i>Pseudomyrmex eculeus</i> Ward 1999	Napo	[136]
<i>Pseudomyrmex eduardi</i> (Forel 1912)	Orellana	[119]
<i>Pseudomyrmex elongatus</i> (Mayr 1870)	Guayas, Orellana, S.Domingo	[119], [135]
<i>Pseudomyrmex ethicus</i> (Forel 1911)	Orellana	[119]
<i>Pseudomyrmex faber</i> (Smith 1858)	Orellana	[119]
<i>Pseudomyrmex filiformis</i> (Fabricius 1804)	Orellana	[119]
<i>Pseudomyrmex flavidulus</i> (Smith 1858)	Sucumbios	[120]
<i>Pseudomyrmex gracilis</i> (Fabricius 1804)	Guayas, Orellana	[32], [44], [58], [119], [138]
<i>Pseudomyrmex laevifrons</i> Ward 1989	Orellana	[119]
<i>Pseudomyrmex oculatus</i> (Smith 1855)	Orellana	[119], [135]
<i>Pseudomyrmex</i> PSW-37 Ward Morphospecies	Orellana	[119]
<i>Pseudomyrmex</i> PSW-52 Ward Morphospecies	Orellana	[119]
<i>Pseudomyrmex</i> PSW-58 Ward Morphospecies	Orellana	[119]
<i>Pseudomyrmex</i> PSW-59 Ward Morphospecies	Orellana	[119]
<i>Pseudomyrmex</i> PSW-161 Ward Morphospecies	Orellana	[119]
<i>Pseudomyrmex pupa</i> (Forel 1911)	Orellana	[119]
<i>Pseudomyrmex rochai</i> (Forel 1912)	Orellana	[119]
<i>Pseudomyrmex sericeus</i> (Mayr 1870)	Orellana	[119]
<i>Pseudomyrmex simplex</i> (Smith 1877)	Orellana	[119]
<i>Pseudomyrmex spiculus</i> Ward 1989	Orellana	[119]
<i>Pseudomyrmex subater</i> (Wheeler & Mann 1914)	Orellana	[119]
<i>Pseudomyrmex tenuis</i> (Fabricius 1804)	Orellana	[106], [119]
<i>Pseudomyrmex tenuissimus</i> (Emery 1906)	unknown	[135]
<i>Pseudomyrmex terminalis</i> (Smith 1877)	Orellana	[119]
<i>Pseudomyrmex triplaris</i> (Forel 1904)	Napo, Pastaza, Sucumbios	[136]
<i>Pseudomyrmex triplarinus</i> (Weddell 1850)	M.Santiago	[43], [136]
<u><i>Pseudomyrmex ultrix</i> Ward 1999</u>	Napo	[14], [136]
<i>Pseudomyrmex unicolor</i> (Smith 1855)	Orellana	[119]
<i>Pseudomyrmex urbanus</i> (Smith 1877)	Orellana, S.Domingo	[119], [135]
<i>Pseudomyrmex viduus</i> (Smith 1858)	Napo, Orellana, Sucumbios	[119], [136]
<i>Pseudoponera</i>		
<i>Pseudoponera gilberti</i> (Kempf 1960)	Orellana	[99], [106], [119]
<i>Pseudoponera gilloglyi</i> (Mackay & Mackay 2010)	Pichincha	[99]
<i>Pseudoponera stigma</i> (Fabricius 1804)	Esmeraldas, Guayas, Imbabura, Los Ríos, Napo, Orellana, Pichincha, S.Domingo, Sucumbios	[32], [44], [99], [120], [122]
<i>Pseudoponera succedanea</i> (Roger 1863)	Cotopaxi, Guayas, Imbabura, Los Ríos, Manabi, Napo, Pastaza, Pichincha, S. Domingo	[99]

Table 1. Species list of ant species known to occur in continental Ecuador, arranged alphabetically by genus. Endemic species names are underlined. Abbreviated references are provided for all [Citation numbers] listed below table (Continuation).

Species	Provinces	Cited in
Rasopone		
<i>Rasopone arhuaca</i> (Forel 1901)	Napo, Orellana, Sucumbios	[99], [106], [118], [119], [120]
<i>Rasopone becculata</i> (Mackay & Mackay 2010)	Cotopaxi, Pastaza, Pichincha, S.Domingo	[99]
<u><i>Rasopone cernua</i></u> (Mackay & Mackay 2010)	Sucumbios	[99]
<i>Rasopone ferruginea</i> (Smith 1858)	Los Ríos, Pichincha	[99]
<i>Rasopone lunaris</i> (Emery 1896)	Orellana	[99], [106], [119]
<i>Rasopone pergandei</i> (Forel 1909)	Esmeraldas, Los Ríos, Manabi, Orellana, Pastaza, Pichincha	[67], [99]
Rhopalothrix		
<i>Rhopalothrix ciliata</i> Mayr 1870	Pichincha	[6]
Rogeria		
<i>Rogeria belti</i> Mann 1922	S.Domingo	[115]
<i>Rogeria besucheti</i> Kugler 1994	Orellana	[67]
<i>Rogeria blanda</i> (Smith 1858)	Orellana, Sucumbios	[77], [106], [119], [120]
<i>Rogeria ciliosa</i> Kugler 1994	Orellana, Sucumbios	[77], [106], [119]
<i>Rogeria gibba</i> Kugler 1994	Los Ríos, Manabi, Pichincha, S.Domingo	[77]
<i>Rogeria lirata</i> Kugler 1994	Orellana	[106], [119]
<i>Rogeria merenbergiana</i> Kugler 1994	Pichincha	[77]
<i>Rogeria micromma</i> Kempf 1961	Orellana	[106], [119]
<i>Rogeria scobinata</i> Kugler 1994	Napo, Orellana, Pastaza, Sucumbios	[77], [106], [119]
<i>Rogeria subarmata</i> (Kempf 1961)	Orellana	[119]
<i>Rogeria tonduzi</i> Forel 1899	Orellana	[106], [119]
<i>Rogeria unguispina</i> Kugler 1994	Orellana	[106], [119]
Simopelta		
<i>Simopelta jeckylli</i> (Mann 1916)	Orellana	[98]
<i>Simopelta longirostris</i> Mackay & Mackay 2008	Cotopaxi	[98]
<u><i>Simopelta manni</i></u> Wheeler 1935	Pastaza	[61], [70], [98], [140]
<i>Simopelta vieirai</i> Mackay & Mackay 2008	Cotopaxi	[98]
<i>Simopelta williamsi</i> Wheeler 1935	Chimborazo, Guayas	[61], [70], [98], [140]
Solenopsis		
<i>Solenopsis geminata</i> (Fabricius 1804)	Orellana, Sucumbios	[32], [114], [120]
<i>Solenopsis stricta</i> Emery 1896	Napo, Pichincha	[113]
<i>Solenopsis virulens</i> (Smith 1858)	Orellana, Sucumbios	[32], [106], [117], [118], [119], [120]
Stegomyrmex		
<i>Stegomyrmex connectens</i> Emery 1912	Orellana	[106], [119]
<i>Stegomyrmex manni</i> Smith 1946	Orellana	[106], [118], [119]
Stenamma		
<i>Stenamma alas</i> Longino 2005	S.Domingo	[15]
<i>Stenamma felixi</i> Mann 1922	Cañar	[15]
<i>Stenamma schmidtii</i> Menozzi 1931	Manabi	[15]

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Species	Provinces	Cited in
<i>Stigmatomma</i>		
<i>Stigmatomma lurilabes</i> (Lattke 1991)	S. Domingo	[80], [115]
<i>Strumigenys</i>		
<u><i>Strumigenys aequinoctialis</i></u> De Andrade 2007	Pichincha	[6]
<i>Strumigenys alberti</i> Forel 1893	Esmeraldas, Los Ríos, Sucumbios	[7], [71], [72], [120]
<i>Strumigenys beebei</i> (Wheeler 1915)	Orellana	[106], [119]
<i>Strumigenys biolleyi</i> Forel 1908	Cotopaxi, Los Ríos, Pichincha, S.Elena	[7]
<i>Strumigenys cosmostela</i> Kempf 1975	Cotopaxi, Orellana	[7], [106], [119]
<i>Strumigenys decipula</i> (Bolton 2000)	Orellana	[7], [67], [106], [119]
<i>Strumigenys denticulata</i> Mayr 1887	Orellana, S. Domingo, Sucumbios, Tungurahua	[7], [67], [106], [118], [119], [120]
<i>Strumigenys depressiceps</i> (Weber 1934)	Napo, Orellana	[7], [106], [119]
<i>Strumigenys dolichognatha</i> Weber 1934	Orellana	[118], [119]
<u><i>Strumigenys doryceps</i></u> (Bolton 2000)	S.Domingo	[7]
<i>Strumigenys eggersi</i> Emery 1890	Orellana, Sucumbios	[106], [119], [120]
<i>Strumigenys elongata</i> Roger 1863	Los Ríos, Orellana, Sucumbios	[7], [67], [106], [119], [120]
<i>Strumigenys epinotalis</i> Weber 1934	Orellana	[119]
<i>Strumigenys fairchildi</i> Brown 1961	Sucumbios	[120]
<u><i>Strumigenys formicosa</i></u> Bolton 2000	Pichincha, S. Domingo	[7]
<i>Strumigenys glenognatha</i> (Bolton 2000)	Orellana	[106], [119]
<i>Strumigenys godmani</i> Forel 1899	Los Ríos	[7]
<i>Strumigenys gundlachi</i> (Roger 1862)	Orellana, Pichincha	[7], [106], [119]
<i>Strumigenys heterodonta</i> (Rigato & Scupola 2008)	Pichincha	[116]
<i>Strumigenys incuba</i> Bolton 2000	Orellana	[118], [119]
<i>Strumigenys lalassa</i> (Bolton 2000)	Pichincha	[7]
<u><i>Strumigenys longimala</i></u> De Andrade 2007	Orellana	[6]
<i>Strumigenys longispinosa</i> Brown 1958	Orellana, S. Domingo	[7], [67]
<i>Strumigenys louisianae</i> Roger 1863	Esmeraldas, Sucumbios	[7], [120]
<i>Strumigenys metopia</i> (Brown 1959)	Orellana	[106], [119]
<u><i>Strumigenys moera</i></u> Bolton 2000	S.Domingo	[7]
<u><i>Strumigenys nageli</i></u> Baroni Urbani & De Andrade 2007	Esmeraldas	[6]
<u><i>Strumigenys necopina</i></u> Bolton 2000	S.Domingo	[7]
<u><i>Strumigenys obliqua</i></u> Bolton 2000	M.Santiago	[7]
<u><i>Strumigenys onorei</i></u> Baroni Urbani & De Andrade 2007	Tungurahua	[6]
<i>Strumigenys osellai</i> (Rigato & Scupola 2008)	Pichincha	[116]
<i>Strumigenys perparva</i> Brown 1958	Orellana	[106], [119]
<i>Strumigenys precava</i> Brown 1954	Napo, Orellana	[7], [106], [119]
<i>Strumigenys rogeri</i> Emery 1890	unknown	[32]
<i>Strumigenys schulzi</i> Emery 1894	Orellana	[106], [119]
<i>Strumigenys skia</i> Bolton 2000	Tungurahua	[7]
<i>Strumigenys smithii</i> Forel 1886	Orellana	[106], [119]
<i>Strumigenys subdentata</i> Mayr 1887	Orellana, Sucumbios	[106], [119], [120]
<i>Strumigenys tococae</i> Wheeler & Bequaert 1929	Orellana	[119]
<i>Strumigenys trinidadensis</i> Wheeler 1922	Orellana, Sucumbios	[67], [106], [119], [120]

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Species	Provinces	Cited in
<i>Strumigenys</i>		
<i>Strumigenys trudifera</i> Kempf & Brown 1969	Orellana	[106], [119]
<u><i>Strumigenys umboceps</i></u> (Bolton 2000)	S. Domingo	[7]
<i>Strumigenys urrhobia</i> (Bolton 2000)	Napo, Orellana, Pastaza	[7], [67], [106], [119]
<i>Strumigenys vartana</i> (Bolton 2000)	Pichincha	[7], [116]
<i>Strumigenys vilhenai</i> Bolton 2000	Orellana	[119]
<i>Strumigenys villiersi</i> (Perrault 1986)	Orellana	[106], [119]
<u><i>Strumigenys vivax</i></u> Bolton 2000	Napo	[7]
<i>Strumigenys zeteki</i> (Brown 1959)	Orellana	[106], [119]
<i>Tapinoma</i>		
<i>Tapinoma melanocephalum</i> (Fabricius 1793)	Orellana	[32]
<i>Tatuidris</i>		
<i>Tatuidris tatusia</i> Brown & Kempf 1968	Cotopaxi, Pichincha, S. Domingo, Z.Chinchipe	[31], [33], [63], [115], [132]
<i>Tetramorium</i>		
<i>Tetramorium bicarinatum</i> (Nylander 1846)	S. Domingo, Sucumbios	[32]
<i>Tetramorium lucayanum</i> Wheeler 1905	Napo, S. Domingo	[32]
<i>Thaumatomyrmex</i>		
<i>Thaumatomyrmex atrox</i> Weber 1939	S. Domingo	[115]
<i>Trachymyrmex</i>		
<i>Trachymyrmex diversus</i> Mann 1916	Orellana	[106], [119]
<i>Trachymyrmex farinosus</i> (Emery 1894)	Orellana	[67], [106], [118], [119]
<i>Trachymyrmex isthmicus</i> Santschi 1931	El Oro, Guayas	[101]
<i>Trachymyrmex levis</i> Weber 1938	Orellana	[67]
<i>Trachymyrmex ruthae</i> Weber 1937	Orellana	[106], [118], [119]
<i>Trachymyrmex zeteki</i> Weber 1940	El Oro	[101]
<i>Tranopelta</i>		
<i>Tranopelta gilva</i> Mayr 1886	Orellana, Sucumbios	[48], [117], [119]
<i>Tranopelta subterranea</i> (Mann 1916)	Orellana, Sucumbios	[48], [106], [117], [118], [119], [120]
<i>Typhlomyrmex</i>		
<i>Typhlomyrmex pusillus</i> Emery 1894	Orellana, Pichincha	[33], [67], [106], [119]
<i>Typhlomyrmex rogenhoferi</i> Mayr 1862	Orellana, Sucumbios	[106], [119], [120]
<i>Wasmannia</i>		
<i>Wasmannia auropunctata</i> (Roger 1863)	Orellana, Pichincha, S. Domingo, Sucumbios, Z. Chinchipe	[30], [32], [33], [67], [104], [106], [115], [117], [118], [119], [120]
<i>Wasmannia iheringi</i> Forel 1908	Orellana	[119]
<i>Wasmannia rochai</i> Forel 1912	Orellana	[119]
<i>Wasmannia scrobifera</i> Kempf 1961	Orellana	[106], [119]

Table 1 Notes. Citation numbers as follows

[1]Albuquerque & Brandão (2004); [2]Almeida (1986); [3]Azorsa & Sosa-Calvo (2008); [4]Baroni Urbani (1977); [5]Baroni Urbani & De Andrade (2003); [6]Baroni Urbani & De Andrade (2007); [7]Bolton (2000); [8]Borgmeier (1953); [9]Borowiec & Longino (2011); [10]Boudinot *et al.* (2013); [11]Brandão (1990); [12]Brandão (1991); [13]Brandão *et al.* (1999); [14]Brandão *et al.* (2010); [15]Branstetter (2013); [16]Brown (1958); [17]Brown (1974); [18]Brown (1975); [19]Brown (1976); [20]Brown (1978a); [21]Brown (1978b); [22]Brown (1980); [23]Brown (1997); [24]Brown (2000); [25]Brown (2001); [26]Cameron (1891); [27]De Andrade & Baroni Urbani (1999); [28]Della Lucia (2003); [29]Delsinne & Fernández (2011); [30]Delsinne *et al.* (2012); [31]Donoso (2012); [32]Donoso *et al.* (2014); [33]Donoso & Ramón (2009); [34]Donoso *et al.* (2006); [35]Elzinga (1982a); [36]Elzinga (1982b); [37]Elzinga (1989); [38]Elzinga (1990); [39]Elzinga (1993); [40]Elzinga (1994); [41]Elzinga (1995); [42]Elzinga & Rettenmeyer (1974); [43]Enzmann (1944); [44]Escalante (1993); [45]Esteves *et al.* (2011); [46]Feitosa & Brandão (2008); [47]Fernández (2002); [48]Fernández (2003); [49]Fernández (2004); [50]Fernández (2007); [51]Fernández *et al.* (2014); [52]Fernández & Palacio (1998); [53]Fernández & Palacio (1999); [54]Forel (1899); [55]Forel (1901a); [56]Forel (1901b); [57]Forel (1904); [58]Forel (1907); [59]Forel (1911); [60]Forel (1921); [61]Gotwald & Brown (1967); [62]Hermann & Young (1980); [63]Jacquemin *et al.* (2014); [64]Jansen & Savolainen (2010); [65]Jones *et al.* (1999); [66]Kaspari & O'Donnell (2003); [68]Kaspari *et al.* (2011); [67]Kaspari *et al.* (2003); [69]Kempf (1964); [70]Kempf (1972); [71]Kempf (1975a); [72]Kempf (1975b); [73]Kistner & Davis (1989); [74]Kistner & Jacobson (1990); [75]Kugler (1979); [76]Kugler (1991); [77]Kugler (1994); [78]Kugler & Brown (1982); [79]LaPolla (2004); [80]Lattke (1991); [81]Lattke (1992); [82]Lattke (1995); [83]Lattke (1997); [84]Lattke (2011); [85]Lattke *et al.* (2004); [86]Lenhart *et al.* (2013); [87]Longino (2003); [88]Longino (2006); [89]Longino (2007); [90]Longino (2009); [91]Longino (2010); [92]Longino (2012); [93]Longino (2013); [94]Longino & Snelling (2002); [95]Mackay (1993); [96]Mackay (1996); [97]Mackay & Mackay (2006); [98]Mackay & Mackay (2008); [99]Mackay & Mackay (2010); [100]Mackay & Barriga (2013); [101]Mayhé-Nunes & Brandão (2007); [102]Mayr (1866); [104]Mertl *et al.* (2009); [105]Mertl *et al.* (2010); [103]Mertl & Traniello (2009); [106]Mertl *et al.* (2012); [107]O'Donnell *et al.* (2005); [108]O'Donnell *et al.* (2007); [109]O'Donnell *et al.* (2009); [110]Ortiz & Fernandez (2011); [111]Orton (1872); [112]Ouellette *et al.* (2006); [113]Pacheco & Mackay (2013); [114]Plowes *et al.* (2009); [115]Ramón *et al.* (2013); [116]Rigato & Scupola (2008); [117]Ryder *et al.* (2007); [118]Ryder *et al.* (2009); [119]Ryder *et al.* (2010); [120]Salazar & Donoso (2013); [121]Santschi (1911); [122]Santschi (1913); [123]Santschi (1921); [124]Santschi (1923); [125]Schultz *et al.* (2002); [126]Schupp (1986); [127]Scott-Santos *et al.* (2008); [128]Shattuck (1994); [129]Snelling & Longino (1992); [130]Solomon *et al.* (2008); [131]Stitz (1933); [132]Vieira (2004); [133]Vieira (2005); [134]Vogel *et al.* (2010); [135]Ward (1989); [136]Ward (1999); [137]Watkins (1976); [138]Wetterer (2010); [139]Wetterer *et al.* (2009); [140]Wheeler (1935); [141]Wheeler (1936); [142]Wild (2004); [143]Wild (2005); [144]Wild (2007); [145]Wild (2009); [146]Willis (1982); [147]Wilson (2003); [148]Wygodzinsky (1982); [149]Young & Hermann (1980).