Checklist of the ants (Hymenoptera, Formicidae) of the Solomon Islands and a new survey of Makira Island

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Abstract
The intent of this paper is to facilitate future research of the Solomon Islands ant fauna by providing the first comprehensively researched species inventory in over 75 years. The species list presented here includes the names of all ant species recorded from the islands that are available in the literature together with specimen records from several museum collections and new records from our 2008 Makira field expedition. All the names of described species presented are valid in accordance with the most recent Formicidae classification. In total, the checklist is composed of 237 species and subspecies (including 30 morphospecies) in 59 genera representing nine subfamilies. We report that the recent field expedition added 67 new species records to Makira and 28 new species records to the Solomon Islands. Our research recovered species occurrence records for 32 individual islands and five island groups. The five islands with the highest number of recorded species are: Makira (142 spp.), Guadalcanal (107 spp.), Malaita (70 spp.), Santa Isabel (68 spp.), and Rennell (66 spp.). Based on our results, we discuss the taxonomic composition of the archipelago’s ant fauna, which islands are most in need of additional sampling, and the importance of establishing biodiversity baselines before environmental threats such as the invasive ant Wasmannia auropunctata cause irrevocable harm to the native biodiversity.

Keywords
Biogeography, checklist, Makira Island, Pacific Islands, Solomon Islands, species distributions, taxonomy, Formicidae

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Introduction

The intent of this paper is to facilitate future research of the Solomon Island ant fauna and that of the larger Pacific Island region by providing the first comprehensively researched species list in over 75 years (Mann 1919; Wheeler 1935b). Reliable species lists are the foundation for biodiversity and biogeography research. This is especially true for archipelago systems such as the Solomons which serve as natural laboratories for studying the interface of geography, evolution and ecology (Diamond 1975; Diamond and Mayr 1976; Greenslade 1968; MacArthur and Wilson 1967; Mayr and Diamond 2001; Wilson 1959a; 1961). Accurate faunal lists at the archipelago level allow us to analyze biogeographic patterns at the regional scale, and faunal lists at the individual island level allow us to analyze more local scale patterns. These studies are crucial for the development of precise conservation plans that incorporate the distribution of endemic and rare taxa.

Faunal lists are also necessary for recognizing biodiversity blind spots and identifying which regions and islands are most in need of additional sampling. Increasing environmental threats such as deforestation, mining, agriculture and the spread of invasive species give urgency to surveying these poorly sampled regions. In order to assess how these threats affect native biodiversity, it is important to establish baseline inventories before local populations and endemic species are driven extinct.

Geography, geology and climate

The Solomon Islands is a nation in the Southwest Pacific that is composed of seven large islands, a dozen mid-sized islands and over a thousand smaller islands (Figure 1). These islands, which comprise a total land area of 27,556 km², are situated between the latitudes 5° and 13°S, and longitudes 155° and 169°E. The major central islands include the Shortlands, Choiseul, the New Georgias, Santa Isabel, the Russells, Guadalcanal, the Nggelas (Floridas), Malaita, Makira (San Cristóbal), and Olu Malau (Three Sisters). Rennell and Bellona are southern outlying islands situated along the northern margin of the Coral Sea Basin. Northern outlying islands include Sikaiana and the Ontong Java Atoll, which are on the southwestern edge of the Ontong Java Plateau. The eastern outlying islands of the Santa Cruz group are politically part of the Solomon Islands, but are geologically linked to the islands of Vanuatu (Kroenke and Rodda 1984).

The Solomons consist of a double chain of islands separating the Pacific Plate to the north from the Australian Plate to the south (Hall 2002). The islands are believed to have been formed entirely of oceanic origin, and there is no evidence that they were ever attached to continental systems or incorporated any terrains of continental origin (Kroenke and Rodda 1984). They are, in this sense, Darwinian Islands (Gillespie and Roderick 2002). According to several geologic models (Hall 2002) the Solomon Arc formed approximately 40 Ma as part of the Melanesian Arc system. It is unclear, however, when the islands emerged above sea level.
Bougainville, which lies to the west, belongs politically to Papua New Guinea but is geographically part of the Solomon Islands. The next closest neighbor nation is Vanuatu, which lies southeast of the main archipelago and nearly due south of the Santa Cruz Is.

The climate of the Solomon Islands is characterized as humid with a mean temperature of 27 °C (80 °F) and relatively few fluctuations of temperature or weather. The cooler and drier part of the year occurs from June through August, and the warmer and wetter season occurs from September through May. The annual rainfall is approximately 3050 mm (120 in).

**History of ant collection and research in the Solomon Islands**

The first ants described from the Solomon Islands were authored by Forel (1910) in a paper on Australian ants based on the collections of W.M. Froggatt and Rowland Turner. Froggatt visited the Solomon Islands to study the insects of the coconut palms, and collected at Tulagi I. and in the Russell Group. W.M. Mann (1919) provided the first and only comprehensive revision of the Solomon Island ant fauna. He spent six months on the archipelago from 19 May to 24 November 1916, and collected on the islands Guadalcanal, Makira, Malaita, Maluapina, New Georgia, Nggela Sule, Owaraha, Rendova, Russell Is., Santa Cruz, Santa Isabel, Tulagi and Ugi. Mann reported the occurrence of 136 currently recognized species and subspecies, of which...
he described 68 from his own collections. In addition to a broad discussion of the archipelago’s ant fauna, the treatise also includes keys to Melanesian species of *Anochetus*, *Crematogaster*, *Cryptopone*, *Eurhopalothrix*, *Leptogenys*, *Myrmecina*, *Triglyphothrix* (= *Tetramorium*), *Turneria*, and *Wheeleriopone* (= *Gnamptogenys*). Additional relevant publications from Mann include descriptions of ant guests from Fiji and the Solomon Islands (Mann 1920), and accounts from his travels in the Solomon Islands (and elsewhere) in his book *Ant Hill Odyssey* (Mann 1948).

H. Viehmeyer (1924) described a new subspecies *Euponera* (*Mesoponera*) *melanaria* subsp. *manni* (= *Pachycondyla manni*) from Mann’s collections at the Museum of Comparative Zoology (MCZ). H. Donisthorpe (1941) described *Nylanderia manni* from a worker that was on the same pin as several workers of *Camponotus loa* Mann, all of which were labeled as *Iridomyrmex myrmecodiae* Emery (= *Philidris myrmecodiae*). Donisthorpe attributed the close similarity of all three species to mimicry.

W.M. Wheeler’s first contribution to the Solomon Island ant fauna was his description of *Opisthopsis manni* based on specimens collected by Mann from Maluapaina (Wheeler 1918). Wheeler (1934) later published on ants collected by Maurice Willows Jr. from the Santa Cruz and Danger Islands. He listed the names and collection records of 27 currently recognized taxa, including original descriptions for two species (*Nylanderia dichora*, *Stereomyrmex dispar*) and one subspecies (*Polyrhachis labella brunneipes*), along with the first published record of *Tapinoma melanocephalum* from the Solomons (Wetterer 2009). These records are combined with those of Forel and Mann in Wheeler (1935b).

William Brown treated many Solomon Island taxa in his revisions (Brown 1948; 1958a; b; 1960; 1975; 1976; 1978; 1988; 1995; Wilkinson and Brown 1983). Gressitt (1958) reported on the pest behavior of *Iridomyrmex myrmecodiae* (= *Philidris myrmecodiae*) invading buildings in Malaita. According to Wilson (1962), the B.P. Bishop Museum, Honolulu, initiated a collecting program in the Solomons under the direction of Gressitt, and there is likely a considerable amount of ant material that remains unreported in the literature.

Research on economically important ants involved in coconut production was an active field in the Solomons from the 1930’s through the 1960’s (Leston 1973; Lever 1933; 1961; O’Conner 1949; 1950; Phillips 1940; 1956). E.S. Brown (1959) recorded over 60 species of ants (including five new country records) collected during his work among coconut plantations in Guadalcanal and Malaita.

Philip J.M. Greenslade has arguably collected more thoroughly across the Solomons than anyone since Mann. Greenslade published seven papers between 1964 and 1988 based on fieldwork he conducted in the Solomons (Greenslade 1964; 1971a; b; 1972; Greenslade and Greenslade 1970; 1971; 1977). The research focused primarily on the ecology of ants that are dominant in coconut plantations and are involved in the biological control of a coconut pest, *Amblypelta cocophaga* China and the premature nutfall of coconut fruit. In addition to providing valuable ecological information on the four most dominant ant species in these plantations (*Anoplolepis gracilipes* (Smith, F.), *Oecophylla smaragdina* Forel, *Pheidole megacephala* (Fabricius) and *Philidris cordata* (Smith, F.)), Greenslade also
collected a broad diversity of less economically important ant species, mainly from Mt. Austen (Guadalcanal) and Kukum—the nearby Solomon Is. Department of Agriculture farm. These specimens, most of which were deposited at the ANIC, included many new species in addition to the first records of *Problomyrmex* (Taylor 1965) and *Colobostruma* (Bolton 2000) for the Solomon Islands. Interestingly, Greenslade’s (1968) work on the avifauna of the Solomon Islands was the first to apply the taxon cycle model to birds.

E.O. Wilson included many species from the Solomon Islands during his revisionary work of the Melanesian ant fauna, including species currently in the genera *Amblyopone*, *Leptogenys*, *Platythyrea* and *Stigmatomma* (1958a); *Ponera*, *Cryptopone*, *Hyponera*, *Pachycondyla* and *Rhytidoponera* (1958b); *Anochetus* and *Odontomachus* (1959c); and *Cerapachys* (1959d). Wilson & Taylor (1967) added several new species records for the Solomons, including *Ponera incerta* (Wheeler) and *Strumigenys karawajewui* Brown (as *S. dubia* (Brown)). Wilson and Hunt (1967) included records for the Solomons. In addition to these taxonomic studies, Wilson also included ants from the Solomons in his influential papers on the taxon cycle hypothesis (Wilson 1959a; 1961) and the theory of island biogeography (MacArthur and Wilson 1967).

Wilson’s (1962) paper on the ants of Rennell and Bellona Islands examined specimens collected from three sources: a Danish Expedition (Wolff 1955); a British expedition (Bradley 1955), and a private collection made on Rennell and Bellona for several weeks during 1955, by Mr. E.S. Brown. Wilson recorded 25 species of ants in 17 genera from Rennell (including the first record of *Dilobocondyla* from the Solomons). He considered these to represent a large percentage of the actual ant diversity, but admitted that the lack of cryptobiotic ponerine and myrmicine species suggest that his list is incomplete. He concluded that the Rennell ant fauna is primarily composed of widespread Pacific natives that invaded the island relatively recently and are representative of ‘Stage-I’ species discussed in his taxon cycle hypothesis (Wilson 1959a; 1961).

Robert Taylor, in addition to describing *Problomyrmex salomonis* (Taylor 1965), also described *Eurhopalothrix greensladei* (Taylor 1968), and *Stigmatomma gnoma* (= *Amblyopone gnoma*) (Taylor 1979) from specimens collected by P.J.M. Greenslade on or near Mt. Austen. Rudolf Kohout’s work on *Polyrhachis* added several new species records to the Solomons, introduced new synonyms and nomenclatural changes, and included the description of three new species (*P. greensladei*, *P. setosa*, *P. undulata*) endemic to the Solomons (Kohout 1990; 1998; 2006). Barry Bolton described *Polyrhachis nofra* (Bolton 1975), from the Solomons, provided the replacement name of *Tetramorium mutatum* Bolton for the junior secondary homonym *Triglyphothrix* (= *Tetramorium*) *pulchella* Mann (Bolton 1985), and added new records of dacetines in the Solomons (Bolton 2000). Bolton (1976) also described *Tetramorium vombis* from specimens Mann (1919) mistakenly identified as *T. obesa* André. Kugler described *Rogeria megastigmatica* from a Greenslade collection made on Guadalcanal (Kugler 1994). Lattke included the Solomon Islands in his biogeographic analysis of *Gnampotenys* in Southeast Asia (Lattke 2003) and described two new species (*G. preciosa* and *G. solomonensis*) from there (Lattke 2004). Lucky & Sarnat (2008) included *Lordomyrma epinotalis* Mann in their phylogenetic and biogeographic analysis of the ge-
nus. Sarnat and Moreau (2011) included *Pheidole* species from the Solomons in their phylogenetic and biogeographic analysis of the Fijian *Pheidole* and selected congeners from across the Pacific.

**Methods**

**Compilation of names**

In order to compile a comprehensive and accurate inventory of ant species recorded from the Solomon Islands, we researched taxonomic names that were associated with the region in the literature. We reviewed the names of all taxa that were originally described from Solomons, reviewed specimen records from Antweb.org, reviewed the species list for the Solomon Islands presented on Antwiki <http://www.antwiki.org/Solomon_Islands>, searched the Formis database (Porter and Wojcik 2012) for all relevant literature containing the term ‘Solomon’, and reviewed relevant taxonomic and regional literature. We also reviewed a dataset of ca. 1,040 specimen records of identified ants collected in the Solomon Islands that are deposited at the ANIC (Australian National Insect Collection, Canberra). We used the Bolton (2012) catalog to determine the valid names of all the species on the list. The Bolton (2012) catalog does not recognize the synonymy of *Cryptopone* with *Pachycondyla*, as implicitly proposed by Mackay & Mackay (2010), and the name is retained here as valid.

Names were eliminated where we found evidence of misidentification or geographic inconsistencies such as geographic names erroneously considered as belonging to the Solomon Islands. We also reconciled situations in which different authors may have referred to the same species by different valid names. For example, there were instances in which we believe one author referred to a taxon using its specific name, and another author referred to the same taxon by its infraspecific name. In cases such as these, and in the absence of additional evidence, we use the infraspecific name. We also note which other names we interpret as referring to the same taxon, and which publications those names occur in.

In addition to the valid names, we also use morphospecies codes to refer to presumptive species that either we or previous authors were unable to determine. The morphospecies code is ‘BP’ (The administrative code for the Solomon Islands) followed and a unique two-digit number (e.g. ‘Camponotus sp. BP01’).

Bougainville is considered to belong geographically but not politically to the Solomons. As such we do not include species recorded from Bougainville that have not also been reported from at least one of islands to its east.

**Survey of Makira**

In addition to basing the present study on the aforementioned published records, we also include records from our own recent survey of the Solomons. Three of the authors (E.P.E.,
E.M.S., J.F.) collected ants in the Solomons from 30 January to 9 February, 2008. Aside from a few collections made on Mt. Austen (Guadalcanal I.), the survey primarily focused on Makira Island (formerly San Cristóbal) where we trekked and collected from Kirakira on the coast to the interior village of Maraone, reaching a maximum elevation of 912 m. Survey methods included hand collection and litter sifting along standardized transects using Winkler extraction bags. All specimens were collected into and stored in 95% ethanol. Pinned specimens were identified using the available literature and compared to type and determined material at the United States National Museum of Natural History (USNM), Washington D.C., USA, and the Museum of Comparative Zoology (MCZC), Cambridge, Massachusetts, USA. These two collections are the primary depositories for Mann’s type material and also include type material designated by W.L. Brown, W.M. Wheeler and E.O. Wilson. We include the species records from this survey with the literature records.

Island records

Occurrence data of ant species on individual islands and island groups were compiled from the relevant literature. More detailed data with literature references for each species-island occurrence is available from the authors upon request. A map of the Solomon Islands (Figure 1) is also presented in which the name of every island and island group from which ant species have been recorded is labeled. The constituent islands comprising the listed island groups are presented in Table 1. In addition to including all taxa from Appendixes 1 and 2, we also include taxa from the 2008 survey of Makira that remain undetermined but might belong to previously described species. Inclusion of these additional taxa may weakly bias the observed species richness of Makira towards a higher value, but exclusion of these taxa would cause an even greater bias towards a lower value.

Sampling analysis

We used our data compilation to estimate in a general sense how undersampled the Solomon Islands are for ants. First, we compared the species richness of individual islands in the Solomons with counts of the Fijian islands, which were the target of recent intensive sampling and taxonomic analysis (Sarnat and Economo 2012). We also compared the species richness of Makira from records before and after our 2008 survey.

Table 1. Island groups and their constituent islands.

| Island Group               | Islands                                           |
|---------------------------|---------------------------------------------------|
| Santa Cruz Is.            | Anuta, Nendō (Santa Cruz), Nupani, Reef Is., Tikopia, Vanikoro |
| Olu Malau Is. (Three Sisters) | Malaupaina                                         |
| Nggela Is. (Florida Is.)  | Nggela Sule (Florida), Tulagi                      |
| New Georgia Is.           | Kolombangarav, New Georgia, Rendova, Vangunu, Vella Lavella |
| Reef Is.                  | Matema                                             |
### Table 2

Number of presumptive native species from Appendix 1 for each genus (arranged from greatest to least). Diverse genera with well-established subgenera are nested under the genus name and the species number of each is presented in parentheses.

| Genus (Subgenus) | Native spp. | %Total |
|------------------|-------------|--------|
| Polyrhachis      | 30          | 14     |
| P. (Myrma)      | (7)         | –      |
| P. (Cynomyrma)  | (5)         | –      |
| P. (Chariomyrma)| (4)         | –      |
| P. (Hedomyrma)  | (4)         | –      |
| P. (Myrmhopla)  | (3)         | –      |
| P. (Myrmatopa)  | (2)         | –      |
| P. (Myrmothrinax)| (1)     | –      |
| P. (Hirtomyrma) | (1)         | –      |
| Pheidole         | 15          | 7      |
| Camponotus       | 14          | 7      |
| C. (Colobopsis) | (5)         | –      |
| Tetramorium      | 11          | 5      |
| Vollenhovia      | 11          | 5      |
| Pachycondyla     | 9           | 4      |
| Strumigenys      | 9           | 4      |
| Crematogaster    | 7           | 3      |
| C. (Crematogaster)| (5)     | –      |
| C. (Orthocrema) | (2)         | –      |
| Gnamptogenys     | 6           | 3      |
| Cryptopone       | 5           | 2      |
| Hypoponera       | 5           | 2      |
| Myrmecina        | 5           | 2      |
| Nylanderia       | 5           | 2      |
| Ponera           | 5           | 2      |
| Acropyga         | 4           | 2      |
| Cerapachys       | 4           | 2      |
| Eutrapalothrix   | 4           | 2      |
| Leptogenys       | 4           | 2      |
| Myopias          | 4           | 2      |
| Odontomachus     | 4           | 2      |
| Anochetus        | 3           | 1      |
| Rogeria          | 3           | 1      |
| Adelomyrmex      | 2           | 1      |
| Arnoldius        | 2           | 1      |
| Cardiocondyla    | 2           | 1      |
| Carebara         | 2           | 1      |
| Colobostruma     | 2           | 1      |
| Iridomyrmex      | 2           | 1      |
| Podomyrma        | 2           | 1      |
| Prionopela       | 2           | 1      |
| Pristomyrmex     | 2           | 1      |
| Proceratium      | 2           | 1      |
| Rhytidoponera    | 2           | 1      |
Results

Ant records from the Solomon Islands

We present a list of nine subfamilies, 60 genera and 215 valid ant species and subspecies for the Solomon Islands based on our review of the literature and our recent collections from Makira (Appendix 1). We also present a list of 23 presumptively undescribed species that have also been recorded from the Solomons (Appendix 2). The generic composition and diversity of the Solomons is presented in Table 1. In total, our research suggests that the Solomon Islands support at least 237 unique ant taxa. The full species list with associated images and specimen data is available on Antweb.org <http://www.antweb.org/solomons.jsp>.

We excluded the following taxa from the list as they were reported from Bougainville but not from within the political boundaries of the Solomon Islands: Cryptopone crassicornis (Emery), Polyrhachis aurea (Mayr), Polyrhachis obliqua Stitz, and Polyrhachis salomo subsp. hiram Forel.

The following taxa were reported from the Solomon Islands, but are not believed to occur there either because the records were based on misidentified material or erroneous interpretation of locality data.

**Camponotus pallens** (Le Guillou, 1842): 316. Type locality: Tonga, Vavao. The website Antwiki.org, accessed 5 October 2012, listed this species under its Solomon Island webpage. The list was generated by extracting all species for which the Solomon Is. were listed as the type locality from the Bolton Catalog (Bolton et al. 2006). Although there are several Vavao islands in the Pacific (including in the Solomon...

| Genus (Subgenus) | Native spp. | %Total |
|------------------|-------------|--------|
| Solenopsis       | 2           | 1      |
| Stigmatomma      | 2           | 1      |
| Turneria          | 2           | 1      |
| Amblyopone       | 1           | <1     |
| Anonychomyrma    | 1           | <1     |
| Discothyrea      | 1           | <1     |
| Lordomyrma       | 1           | <1     |
| Monomorium       | 1           | <1     |
| Myopopone        | 1           | <1     |
| Oecophylla       | 1           | <1     |
| Opisthopsis      | 1           | <1     |
| Parapantrechina  | 1           | <1     |
| Philidris        | 1           | <1     |
| Platythyrea      | 1           | <1     |
| Probolomyrmex    | 1           | <1     |
| Stereomyrmex     | 1           | <1     |
| Tapinoma         | 1           | <1     |
| Tetraponera      | 1           | <1     |
Is.) the original description lists the type locality as *Vavao (îles des Amis)*, which suggests Tonga (often referred to in older literature as the ‘Friendly Islands’) is the more likely country. Moreover, the species does not appear in any of the reviewed literature as occurring in the Solomons.

*Camponotus reticulatus* Roger, 1863: 139. Type locality: Sri Lanka. The first record of *C. reticulatus* Roger appeared in Wilson (1962). Wilson explicitly applied *C. reticulatus* Roger to the Solomons material that Wheeler (1934) referred to as *C. reticulatus* subsp. *bedoti* Emery. In following the current classification (Bolton 2012), we accept *C. bedoti* Emery as a valid species, and apply that name to all the material from the Solomons referred to as *C. reticulatus* Roger. The decision to do so is somewhat arbitrary given the current state of taxonomy for Indo-Australian *Camponotus*, but we believe that both names refer to the same species in the Solomons.

*Hypoponera pallidula* (Emery, 1900): 320. Type locality: New Guinea. Mann (1919) reported this species as occurring in the Solomon Is., but Wilson (1958b) believed Mann’s specimens belonged to *Ponera sororcula* (= *Hypoponera sororcula*) Wilson.

*Leptogenys laeviceps* (Smith, 1857): 69. Type locality: Borneo. Mann (1919) reported this species as occurring in the Solomon Islands, but Wilson (1958a) considered Mann’s specimens to be a mixed series, part of which belong to *Leptogenys diminuta* Smith, F. and the other part to *Leptogenys oresbia* Wilson.

*Odontomachus haematodus* (Linnaeus, 1758): 582. Type locality: “America meridionali.” It is presumed that specimens referred to as *O. haematodus* by Mann (1919), Wheeler (1934; 1935a) and E. S. Brown (1959) prior to Wilson’s (1959b) revision belong instead to *O. simillimus* Smith, F.

*Odontomachus insularis* Guérin-Méneville, 1844: 423. Type locality: Cuba. Forel (1910) reported this species as occurring in the Solomon Is., but it is more likely that this was a misidentification and that the specimens he examined belong to *Odontomachus simillimus* Smith, F. *Odontomachus insularis* is not known from the Old World and was not included in Wilson (1959c).

*Pheidole punctulata* Mayr, 1866: 899. Type locality: South Africa. Forel (1910) reported this species as occurring in the Solomon Is., but it is more likely that the specimens he examined belong to the cosmopolitan tramp *Pheidole megacephala*.

*Philidris cordata* (Smith, F. 1859): 137. Type locality: Indonesia, Aru I. In his introduction, Greenslade (1972) treated *Iridomyrmex cordatus* (= *Philidris cordata*) Smith, F. as the senior synonym of *I. cordatus* var. *myrmecodiae* (= *P. myrmecodiae*) Emery. However, *P. myrmecodiae* has been accepted as a valid species since 1903
(Bolton 2012; Shattuck 1994). The correct name for the Solomons material would require comparison against type material for both taxa. In the meantime, our decision to use *P. myrmecodiae* rather than *P. cordata* reflects our belief that (1) insofar as the Solomon Is. are concerned, the use of both names refer to the same species; and (2) there is no taxonomic evidence proposed by Greenslade that Mann’s (1919) use of *P. myrmecodiae* was misapplied.

*Tetramorium obesum* André, 1887: 294. Type locality: India. Mann (1919) misidentified a series of specimens as belonging to *T. obesa* André that Bolton (1976) subsequently described as *Tetramorium vombis*. We assume here that the specimens referred to as *T. obesum* by Taylor (1976) are also *T. vombis*.

**Makira Island Survey**

We collected a total of 67 described species and 30 presumptive species that are either undescribed or that we were unable to determine. Based on comparisons with type material, previously determined material and literature review, we suspect approximately 15 of the presumptive species are new to science. These taxa are included in Appendix 2. The survey added 67 new species records to Makira of taxa included in Appendixes 1 and 2, bringing the total number of species known from the island to 142. The survey also added 28 new species records to the Solomon Islands. Of these, six are previously described species (including three introduced species), and the remainder of species are included in Appendix 2.

**Island records and sampling analysis**

Our research recovered species occurrence records for 32 individual islands and five island groups out of the approximately 75 named small to large individual islands and approximately 12 named island groups. These occurrence records are presented in Appendix 3. The 261 taxon names include the 215 described species and subspecies from Appendix 1, the 22 presumptive undescribed species from Appendix 2, and 24 additional morphospecies that likely represent a mixture of previously described species and undescribed species. This latter group is restricted to specimens collected during the 2008 Makira survey. The five islands with the highest number of species records, listed from greatest to least, are: Makira (142 spp.), Guadalcanal (107 spp.), Malaita (71 spp.), Santa Isabel (68 spp.), and Rennell (66 spp.). Fourteen individual islands have occurrence records for between 11–38 species. Thirteen individual islands have occurrence records for between 1–8 species.

The ten most widely distributed species, with the number of islands each is reported from, are: *Odontomachus simillimus* (27), *Anoplolepis gracilipes* (18), *Camponotus bedoti* (17), *Nylanderia vaga* (15), *Anochetus graeffei* (13), *Eurhopalothrix procera* (13),
Myopopone castanea (13), Oecophylla smaragdina subnitida (13), Pachycondyla stigma (13), Philidris myrmecodiae (13). One hundred seven of the species and morphospecies included in Appendix 3 are only reported from single islands.

Discussion

In total, our research suggests that the Solomon Islands support at least 237 unique ant species and subspecies. The poor sampling of many islands–some of which are quite large–and the unexamined material at the ANIC suggests that the true number is likely much greater. For example, our eight days of intensive hand collection and Winkler extractions on Makira added 67 new species records to the island (including all morphospecies) and 28 new records to the archipelago. Prior to the survey, Makira Island’s 75 species records were the second highest of the entire archipelago. Choiseul Island by comparison is approximately equal in area to Makira and closer to New Guinea, but the ant fauna of the island is virtually unknown with only eleven species recorded in the literature. There are approximately as many species known from the islands of Santa Isabel and Malaita as there are from Rennell, despite the substantially larger area of the former islands and their closer proximity to other large islands within the archipelago. The difference is that although no ant specialists have thoroughly sampled Rennell, general entomologists have collected there and the ant specimens of those surveys were the subject of several faunistic reviews (Taylor 1976; Wilson 1962). Besides Makira and Rennell Islands, the only island that has been moderately sampled–thanks to the works of Mann and Greenslade–is Guadalcanal.

Compared to Fijian islands of similar size, known species richness is generally much lower for individual islands within the Solomons, despite the fact that Fiji is much more isolated in the Pacific (Figure 2). This is likely due to relative sampling intensity of the two areas. Fiji has recently received intensive sampling efforts (Sarnat and Economo 2012), while richness differences among the Solomon Islands are still driven in large part by which islands were visited by W.M. Mann in 1916. For example, the 38 recorded species reported from the small island of Ugi (42 km$^2$), where Mann resided and collected for several weeks, is a richness comparable with a similar-sized Fijian island. Several large islands not visited by Mann have almost no records (e.g. Choiseul 2,966 km$^2$, 11 spp.; Kolombangara 704 km$^2$, 17 spp.). Our modest survey of Makira, where we spent approximately one week of collecting time, increased known richness from 75 to 142 species. There is no doubt that such modest collecting efforts elsewhere in the archipelago would yield similar increases.

The species list compiled from our research suggests several interesting taxonomic patterns. For example, species richness across the 51 native ant genera of the Solomons appears uneven. The 30 Polyrhachis species represent 14% of the total native species. The nine most diverse genera (Polyrhachis, Pheidole, Camponotus, Tetramorium, Vollenhovia, Pachycondyla, Strumigenys, Crematogaster, and Gnamptogenys) collectively contain over half of the total native species, while fifteen genera are represented by a single native species.
Why is *Polyrhachis* so strongly represented in the Solomons? These results are likely biased to some extent by idiosyncratic collecting and taxonomic study. Besides the work of Mann, and to a lesser extent Greenslade, most of the collections from the Solomons have been made by more generalist collectors, which tend to take larger, more conspicuous ants that forage on and nest in vegetation—all of which are characteristic of *Polyrhachis*. Furthermore, Rudolf Kohout, who has access to the considerable collection of Solomons material at the ANIC, has devoted much of his taxonomic efforts towards revising the *Polyrhachis* of the Indo-Australian region (Kohout 1990; 1998; 2006; 2012). Despite these apparent biases, it is somewhat remarkable that with a single exception, the eight distinct *Polyrhachis* lineages that colonized the Solomons (as inferred from their subgeneric classifications) were unable to colonize, or at least persist.
in the more eastern Pacific islands. That single exception, *Polyrhachis rotumana* Wilson & Taylor, is known from the island of Rotuma which belongs politically to Fiji but is quite isolated from the Fijian archipelago and shares more geological and biological affinity with the islands of Polynesia.

*Pachycondyla* (9 native spp.), *Crematogaster* (7 native spp.) and *Gnamptogenys* (6 native spp.) are also among the most diverse ant genera in the Solomon Islands, but are either absent from or poorly represented in more easterly archipelagos. Fiji, for example, supports a single native *Gnamptogenys* species (*Gnamptogenys aterrima* Mann), and does not support any native *Pachycondyla* or *Crematogaster* species (Sarnat and Economo 2012). The Solomons are the known eastern limit for many ant genera. Out of the 51 genera native to the Solomons, the following 19 are not known to occur in the Pacific in or east of the Fijian archipelago: *Anonychomyrma, Arnoldius, Cardiocondyla, Colobostruma, Crematogaster, Cryptopone, Myopias, Myopopone, Myrmecina, Oecophylla, Opisthopsis, Pachycondyla, Podomyrma, Polyrhachis, Probolomyrmex, Rhytidoponera, Stereomyrmex, Tetraponera, Turneria*.

While additional sampling may prove otherwise, the current analysis of the Solomons ant fauna does not appear to support the type of *in situ* single-lineage radiations that characterize much of the Fijian ant fauna to the east. Parallels to the dramatic radiations of the *Pheidole roosevelti* group (Economo and Sarnat 2012; Sarnat 2008), *Lorodomymyrmex* (Lucky and Sarnat 2008; Sarnat 2006), and the *Camponotus dentatus* group (Sarnat and Economo 2012) are largely unknown from the Solomons. It is likely that the Solomons ant fauna is derived more from relatively frequent colonization events from nearby New Guinea than from sweepstakes colonists that diversified into largely unoccupied ecological niches as occurred in the more isolated Fijian archipelago. Unlike New Guinea and Fiji, the Solomons do not support any endemic ant genera.

The importance of establishing baseline faunal inventories for the entire Solomon Island archipelago and its constituent islands is especially important when considering the growing environmental impacts resource extraction, plantation agriculture and invasive species are having on native biodiversity. Perhaps the greatest threat to native ant species in the Solomons is the spread of the Little Fire Ant (*Fasi 2009*). The introduction of *W. auropunctata* into the Solomon Islands is believed to have occurred around 1974, possibly with the arrival of coconut nurseries (Fabres and Brown 1978; Ikin 1984; Wetterer 1997). Foucaud et al. (2010) determined that a single clonal queen genotype is shared between the Melanesian populations of *W. auropunctata* from the Solomons, Vanuatu, Papua New Guinea and Australia, and suggested that the population spread by means of traditional exchange of plants and goods among Melanesian people. Although there have been reports of the ant’s effect on vertebrates in the Solomons, such as blinding dogs and attacking hatchlings of the ground-nesting Melanesian Scrubfowl (*Megapodius eremita* Hartlaub) (Wetterer 1997), and also its effect on food crops and subsistence agriculture (Fasi 2009), there have yet to be any studies examining the effect of *W. auropunctata* on native ant diversity in the Solomons. The potential for spread of *W. auropunctata* across the entire archipelago is high (Fasi 2009), and it is likely a matter of years before all the major islands are infested.
We hope the research presented here will help facilitate more study of the neglected Solomon Island ant fauna and aid conservation efforts before *Wasmannia* and other environmental threats cause irrevocable harm.

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Appendix I

List of valid species recorded from the Solomon Islands arranged by subfamily, genus and species. (*) Species known to be introduced to the Solomons from outside the Pacific region. ‘Year’ refers to the first year the species was reported from the Solomon Islands. References are arranged in chronological order. Footnotes appended to reference codes indicate that the author misidentified the species or associated it with a different valid name. Reference codes: (1) Forel 1910; (2) Wheeler 1918; (3) Mann 1919; (4) Wheeler 1933; (5) Wheeler 1934; (8) Wheeler 1935a; (9) Chapman and Capco 1951; (10) Wilson 1957; (11) Brown 1958a; (12) Brown Jr. 1958b; (13) Wilson 1958a; (14) Wilson 1958b; (15) Brown 1959a; (16) Brown 1959b; (17) Wilson 1959a; (18) Wilson 1962; (19) Wilson 1959b; (20) Wilson 1959c; (21) Brown Jr. 1960; (22) Brown and Kempf 1960; (23) Taylor 1965; (24) Etershank 1966; (25) Taylor 1967; (26) Wilson and Taylor 1967; (28) Taylor 1968; (29) Greenslade and Greenslade 1970; (30) Greenslade 1971b; (31) Bolton 1975; (32) Brown Jr. 1975; (33) Brown Jr. 1976; (34) Taylor 1976; (35) Bolton 1977; (36) Greenslade and Greenslade 1977; (37) Brown Jr. 1978; (38) Taylor 1979; (39) Willey and Brown 1983; (40) Ikin 1984; (41) Bolton 1987; (42) Shattuck 1990; (43) Taylor 1991a; (44) Taylor 1991b; (45) Kugler 1994; (46) Brown Jr. 1995; (47) Lin and Wu 1996; (48) Bolton 2000; (49) Ward 2001; (50) Baroni Urbani and De Andrade 2003; (51) Seifert 2003; (52) Wang 2003; (53) LaPolla 2004; (54) Lattke 2004; (55) Kohout 2006; (56) Bolton 2007; (58) Lucky and Sarnat 2008; (59) Seifert 2008; (60) Shattuck 2008; (61) Hosoihi and Ogata 2008; (62) LaPolla 2009; (63) Sorger and Zettel 2009; (64) Kohout 2012; (65) Shattuck and Slipinska 2012; (66) Shattuck et al. 2012; (67) Brown Jr. 1975; (68) Greenslade 1972; (69) Bolton 1985; (70) Forel 1912; (71) Viehmeyer 1924; (72) Donisthorpe 1941; (73) Wetterer 2009; (74) Kohout 1990; (75) Wetterer 1997; (76) Fasi 2009; (77) Foucaud et al. 2010; (78) Fisher and Smith 2008; (79) Collections of Economo and Sarnat 2008; (80) British Natural History Museum, London (Antweb.org records); (81) Australian National Insect Collection, Canberra; (82) Taylor 1980.
### Checklist of the ants (Hymenoptera, Formicidae) of the Solomon Islands

| Taxon                     | Author                       | Year | Reference |
|---------------------------|------------------------------|------|-----------|
| **Amblyoponinae**         |                              |      |           |
| Amblyopone australis      | Erichson, 1842: 261          | 1919 | 3, 8, 9, 13, 17, 38, 81 |
| **Myopopone castanea**    | (Smith, F. 1860): 105        | 1919 | 3, 8, 9, 13, 17, 21, 81 |
| **Prionopelta majuscula** | Emery, 1897b: 595            | 2008 | 60, 81    |
| **Prionopelta opaca**     | Emery, 1897b: 596            | 1976 | 34, 60, 79, 81 |
| **Stigmatomma celata**    | (Mann, 1919): 279            | 1919 | 3, 8, 13, 17, 21, 34, 38, 81 |
| **Stigmatomma gnoma**     | Taylor, 1979: 829            | 1978 | 38, 81    |
| **Cerapachyinae**         |                              |      |           |
| Cerapachys inconspicuus   | Emery, 1901: 153             | 1919 | 3, 8, 9, 18, 20, 34 |
| Cerapachys pawa           | Mann, 1919: 277              | 1919 | 3, 8, 20, 32 |
| Cerapachys terricola      | Mann, 1919: 277              | 1919 | 3, 8, 32, 79 |
| **Dolichoderinae**        |                              |      |           |
| Anonychomyrma dimorpha    | (Viehmeyer, 1912): 7         | 1919 | 3, 8, 9, 79 |
| Arnoldius pusillus        | (Mayr, 1876): 83             | 1959 | 15        |
| Iridomyrmex anceps        | (Roger, 1863a): 164          | 1919 | 3, 8, 15, 36, 81 |
| Iridomyrmex pallidus      | Forel, 1901: 22              | 1963 | 81        |
| Iridomyrmex rufoniger     | (Lowne, 1865): 279           | 1919 | 3, 8      |
| Ochetellus glaber*        | (Mayr, 1862): 705            | 2009 | 79        |
| Philidris myrmecodiae     | (Emery, 1887): 249           | 1919 | 3, 6, 8, 15, 16, 29, 30, 68, 34, 36, 79 |
| Tapinoma (Micromyrmia) indicum timidum | Santschi, 1928 | 1959 | 15 |
| Tapinoma melanocephalum*  | (Fabricius, 1793): 353       | 1934 | 6, 8, 15, 18, 34, 36, 73, 81 |
| Tapinoma minutum          | Mayr, 1862: 703              | 1967 | 26        |
| Technomyrmex albipes*     | (Smith, F. 1861): 38         | 1910 | 1, 3, 8, 15, 18, 34, 36, 56, 79, 81 |
| Technomyrmex vitiensis    | Mann, 1921: 473              | 2008 | 79        |
| Turneria dahlii           | Forel, 1901: 17              | 1959 | 18, 34, 42, 81 |
| Turneria pacifica         | Mann, 1919: 361              | 1919 | 3, 42, 81 |
| **Ectatomminae**          |                              |      |           |
| Gnamptogenys albiclava    | (Mann, 1919): 283            | 1919 | 3, 8, 11, 17, 54 |
| Gnamptogenys crenaticeps  | (Mann, 1919): 285            | 1919 | 3, 8, 11, 17, 54, 79 |
| Gnamptogenys lucida       | (Mann, 1919): 285            | 1919 | 3, 8, 11, 17, 54 |
| Gnamptogenys malaensis    | (Mann, 1919): 281            | 1919 | 3, 8, 11, 17, 54, 79 |
| Gnamptogenys preciosa     | Lattke, 2004: 66             | 2004 | 54, 81    |
| Gnamptogenys solomonensis | Lattke, 2004: 66             | 2004 | 54, 81    |
| Rhytidoponera araneoides  | (Le Guillou, 1842): 317      | 1910 | 1, 3, 14, 17, 79, 81 |
| Rhytidoponera chalybatae  | Emery, 1901b: 51             | 1959 | 15        |
| **Formicinae**            |                              |      |           |
| Acropyga acutiventris     | Roger, 1862: 243             | 1919 | 3, 8, 53, 79, 81 |
| Acropyga lauta            | Mann, 1919: 365              | 1919 | 3, 8, 33, 79, 81 |
| Acropyga oceanica         | Emery, 1900: 333             | 2008 | 79        |
| Acropyga pallida          | (Donisthorpe, 1938): 598     | 1965 | 81        |
| Anapolepis gracilipes*    | Smith, F. 1857: 55           | 1919 | 3, 6, 8, 15, 18, 29, 30, 68, 34, 36, 81 |
| Brachymyrmex obscurior*   | Forel, 1893: 345             | 1976 | 34, 79    |
| Camponotus (Myrmamblys) bedoti | Emery, 1893: 196             | 1919 | 3, 6, 8, 15, 18, 34, 36, 36 |

1 Referred to as Philidris cordata (Smith, F.).
2 Referred to as Camponotus reticulatus Roger.
| Taxon                      | Author                        | Year | Reference |
|---------------------------|-------------------------------|------|-----------|
| Camponotus chloroticus    | Emery, 1897b: 574             | 1959 | 15        |
| Camponotus elysii         | Mann, 1919: 372               | 1919 | 3, 8      |
| Camponotus guppyi         | Mann, 1919: 370               | 1919 | 3, 8      |
| Camponotus loa            | Mann, 1919: 373               | 1919 | 3, 8      |
| Camponotus loa belli      | Mann, 1919: 375               | 1919 | 3, 8      |
| Camponotus novaehollandiae| Mayr, 1870: 939               | 1919 | 3        |
| Nylanderia bourbonica*    | (Forel, 1886): 210            | 1959 | 15, 34, 36, 81 |
| Nylanderia braueri glabrior| (Forel, 1902): 490            | 1954 | 81       |
| Nylanderia dichroa        | Wheeler 1934: 181             | 1934 | 6, 8, 81  |
| Nylanderia manni         | Donisthorpe, 1941: 41         | 1941 | 72, 15, 36|
| Nylanderia obscura bismarckensis| (Forel, 1901): 26             | 1919 | 3, 6, 8  |
| Nylanderia stigmatica    | Mann, 1919: 367               | 1919 | 3, 8, 79, 81|
| Nylanderia taga*         | (Forel, 1901): 26             | 1934 | 6, 8, 18, 26, 34, 36, 79, 81 |
| Nylanderia vividula*     | (Nylander, 1846): 900         | 1919 | 3, 15, 79 |
| Oecophylla smaragdina subnitida| Emery 1892: 565              | 1910 | 1, 3, 6, 8, 15, 16, 29, 30, 68, 36, 79, 81 |
| Opisthopsis manni       | Wheeler, W.M., 1918: 361      | 1918 | 2, 3, 8, 15|
| Paraparatrechina minutula | (Forel, 1901): 25            | 1919 | 3, 8, 15, 34, 79, 81 |
| Paratrechina longicornis* | (Latreille, 1802): 113         | 1919 | 3, 8, 15, 34, 79, 81 |
| Plagiolepis alluaudi*    | Emery, 1894: 71               | 1959 | 15       |
| Polyrhachis (Myrma) andromache | Roger, 1863b: 8             | 1959 | 3, 18, 34, 79 |
| Polyrhachis (Hedomyrma) annae | Mann, 1919: 377             | 1919 | 3, 6, 8, 15, 18, 34 |
| Polyrhachis (Chariomyrma) arcuata acutinota | Forel, 1901: 31 | 1934 | 6 |
| Polyrhachis (Hedomyrma) campbelli | Mann, 1919: 376 | 1919 | 3, 8, 79 |
| Polyrhachis (Myrmotherina) dahlii | Forel, 1901: 30 | 1919 | 3, 8, 9, 64 |
| Polyrhachis (Cymomyrma) emeryana | Mann, 1919: 390 | 1919 | 3, 8, 55 |
| Polyrhachis (Cynomyrma) fulakora | Mann, 1919: 389 | 1919 | 3, 8, 15, 55 |
| Polyrhachis (Hedomyrma) geminata | Mann, 1919: 376 | 1919 | 3, 8, 79 |
| Polyrhachis greensladei  | Kohout, 1990: 503             | 1990 | 74       |
| Polyrhachis (Myrma) ithona | Smith, F., 1860: 99           | 1934 | 6, 8     |
| Polyrhachis (Cynomyrma) johnsoni | Mann, 1919: 390 | 1919 | 3, 8, 55 |
| Polyrhachis (Chariomyrma) kaiipi | Mann, 1919: 382 | 1919 | 3, 6, 8, 79 |
| Polyrhachis (Myrma) labella brunneipes | Wheeler, 1934 | 1934 | 6, 8 |
| Polyrhachis (Myrma) littigosa | Emery, 1897b: 581            | 1919 | 3, 8, 79 |
| Polyrhachis (Myrma) malaenius | Mann, 1919: 386             | 1919 | 3, 8      |
| Polyrhachis nofra         | Bolton, 1975: 9               | 1975 | 31       |
| Polyrhachis (Myrmatopa) osae | Mann, 1919: 384         | 1919 | 3, 6, 8, 9, 15 |
| Polyrhachis pacifica      | Kohout, 2006: 140            | 2006 | 55       |
| Polyrhachis (Chariomyrma) rere | Mann, 1919: 381           | 1919 | 3, 6, 8, 15 |
| Polyrhachis (Myrmhopla) saevissima argentea | Mayr, 1862: 82 | 1919 | 3, 8, 9 |
| Polyrhachis (Myrma) salomo | Forel, 1910: 87              | 1910 | 1, 3, 8, 15 |
| Polyrhachis (Hedomyrma) santchii | Mann, 1919: 375          | 1919 | 3, 8      |
| Polyrhachis setosa        | Kohout, 2006: 141            | 2006 | 55       |

3 Referred to as *Oecophylla smaragdina* (Fabricius).
4 The material referred to by the unavailable name *Polyrhachis (Myrma) relucens subsp. andromache var. nesiots* Mann is provisionally assigned to *P. andromache* Roger.
5 Referred to as *Polyrhachis relucens* (Latreille).
| Taxon                        | Author                  | Year | Reference     |
|-----------------------------|-------------------------|------|---------------|
| *Polyrhachis (Myrma) similis* | Viehmeyer, 1912: 8      | 1919 | 3, 8          |
| *Polyrhachis (Cyrtomyrma) ugiensis* | Mann, 1919: 389        | 1919 | 3, 8, 55, 79  |
| *Polyrhachis (Myrmatopa) ulysse* | Forel, 1910: 91        | 1910 | 1, 3, 8       |
| *Polyrhachis (Cyrtomyrma) undulata* | Kohout, 2006: 142      | 2006 | 55, 79        |
| *Polyrhachis (Myrmhopla) wheeleri* | Mann, 1919: 387        | 1919 | 3, 8, 9       |

**Myrmicinae**

| Taxon                        | Author                  | Year | Reference     |
|-----------------------------|-------------------------|------|---------------|
| *Cardiocondyla kagutsuchi*   | Terayama, 1999: 100     | 2009 | 79            |
| *Cardiocondyla nivalis*      | Mann, 1919: 317         | 1919 | 3, 8, 34, 36  |
| *Cardiocondyla nuda*         | (Mayr, 1866): 508       | 1959 | 15, 34, 36, 51, 59 |
| *Carebara atoma*             | (Emery, 1900): 328      | 1919 | 3, 8, 34, 36, 79 |
| *Carebara viehmeyeri*        | (Mann, 1919): 331       | 1919 | 3, 8, 79      |
| *Colobostruma foliacea*      | Emery, 1897a: 573       | 2000 | 48, 81        |
| *Crematogaster (Crematogaster) abrupta* | Mann, 1919: 320   | 1935 | 8, 15, 61     |
| *Crematogaster (Crematogaster) elysi* | Mann, 1919: 319       | 1935 | 8, 3, 61      |
| *Crematogaster (Crematogaster) foxi* | Mann, 1919: 321        | 1935 | 8, 3, 61      |
| *Crematogaster (Crematogaster) nesiotis* | Mann, 1919: 322       | 1935 | 8, 3, 61      |
| *Crematogaster (Crematogaster) obmiga* | Mann, 1919: 323        | 1919 | 3, 15, 61     |
| *Crematogaster (Orthocrema) scita* | Forel, 1902: 409      | 1959 | 15            |
| *Crematogaster (Orthocrema) wheeleri* | Mann, 1919: 318      | 1935 | 8, 3, 61      |
| *Eurhopalothrix brevicornis* | (Emery, 1897a): 572    | 1977 | 36, 80, 28, 82 |
| *Eurhopalothrix greensladi*  | Taylor, 1968: 342      | 1968 | 28, 82        |
| *Eurhopalothrix isabellae*   | (Mann, 1919): 357      | 1919 | 3, 8, 22, 80, 28, 82 |
| *Eurhopalothrix procera*     | (Emery, 1897a): 572    | 1919 | 3, 8, 22, 28, 79, 81, 82 |
| *Lordomyrma epinotalis*      | (Mann, 1919): 343      | 1919 | 3, 8, 34, 58, 79 |
| *Monomorium australicum*     | Forel, 1907:20         | 1919 | 3, 8, 15, 34, 36 |
| *Monomorium destructor*      | (Jerdon, 1851): 105    | 1959 | 18, 34        |
| *Monomorium floricola*       | (Jerdon, 1851): 107    | 1959 | 15, 34, 36, 41, 79, 81 |
| *Myrmecina modesta*          | Mann, 1919: 335        | 1919 | 3, 8, 34*     |
| *Myrmecina modesta subarmata* | Mann, 1919: 337        | 1919 | 3, 8          |
| *Myrmecina transversa*       | Emery, 1897a: 582      | 2008 | 79            |
| *Pheidole belli*             | Mann, 1919: 306        | 1919 | 3, 8          |
| *Pheidole erato*             | Mann, 1919: 307        | 1919 | 3, 8          |
| *Pheidole fuscula*           | Emery, 1900: 325       | 1919 | 3, 8          |
| *Pheidole isis*              | Mann, 1919: 311        | 1919 | 3, 8          |
| *Pheidole isis taki*         | Mann, 1919: 314        | 1919 | 3, 8, 79      |
| *Pheidole megacephala*       | (Fabricius, 1793): 361 | 1910 | 1, 6, 8, 15, 26, 30, 34, 81 |
| *Pheidole mendanai*          | Mann, 1919: 311        | 1919 | 3, 8          |
| *Pheidole nindi*             | Mann, 1919: 314        | 1919 | 3, 8, 34, 36, 79 |
| *Pheidole oceanica*          | Mayr, 1866: 510        | 1919 | 3, 8, 15, 18, 34, 36, 79 |
| *Pheidole philemon*          | Forel, 1910: 44        | 1910 | 1, 3, 8, 15, 79 |
| *Pheidole sexspinosa*        | Mayr, 1870: 977        | 1919 | 3, 8, 34, 36, 79 |
| *Pheidole sexspinosa fuscescens* | Emery, 1900: 323     | 1919 | 3, 8, 18      |
| *Podomyrma batalis salomo*   | Mann, 1919: 333        | 1919 | 3, 8          |

6 Referred to as *Myrmecina modesta*.
7 Referred to as *Pheidole punctulata* Mayr.
| Taxon                                      | Author                        | Year | Reference |
|--------------------------------------------|-------------------------------|------|-----------|
| Podomyrma basalis woodfordi                | Mann, 1919: 334               | 1919 | 3, 8      |
| Pristomyrme levigatus                      | Emery, 1897a: 583             | 1919 | 3, 52, 79 |
| Pristomyrme obesus                         | Mann, 1919: 339               | 1919 | 3, 8, 80, 52 |
| Rogeria megastigmatica                    | Kugler, C. 1994: 35           | 1994 | 45, 79    |
| Rogeria stigmatica                        | Emery, 1897: 589              | 1919 | 3, 8, 34, 45 |
| Romblonella elysi                          | (Mann, 1919): 346             | 1919 | 3, 8, 44  |
| Solenopsis geminata*                       | (Fabricius, 1804): 423        | 1977 | 36        |
| Solenopsis papuana                         | Emery, 1900: 330              | 1919 | 3, 79     |
| Solenopsis pawensis                        | Mann, 1919: 329               | 1919 | 3, 79     |
| Stereomyrme dispar                         | (Wheeler, W.M. 1934): 175     | 1934 | 6, 18, 34, 44 |
| Strumigenys chyzeri                        | Emery, 1897a: 576             | 1919 | 3, 48, 79 |
| Strumigenys decollata                      | Mann, 1919: 353               | 1919 | 3, 8, 12, 48 |
| Strumigenys emmae*                        | Emery, 1890: 70               | 1976 | 34, 36, 48, 81 |
| Strumigenys euryera                        | Emery, 1897a: 581             | 2000 | 48, 81    |
| Strumigenys frivaldzkyi                    | Emery, 1897: 580              | 1976 | 34, 48, 79 |
| Strumigenys godeffroyi*                    | Mayr, 1866: 516               | 1919 | 3, 15, 36, 47, 48, 79 |
| Strumigenys karawajewi                     | (Brown, 1948): 44             | 1976 | 34, 46, 48, 79, 81 |
| Strumigenys membranifera*                  | (Emery, 1869): 24              | 2000 | 48, 36, 81 |
| Strumigenys mocsaryi                       | (Emery, 1897a): 580           | 2000 | 48        |
| Strumigenys rogeri*                        | Emery, 1890: 68               | 2000 | 48        |
| Strumigenys szalayi                        | Emery, 1897: 578              | 2000 | 48, 79    |
| Strumigenys undras                         | Bolton, 2000: 752             | 2000 | 48        |
| Strumigenys yaleplecera                     | Brown, 1988: 41               | 2000 | 48        |
| Tetramorium antennatum                     | (Mann, 1919): 350             | 1919 | 3        |
| Tetramorium aspersum                       | (Smith, F. 1865): 72          | 1919 | 3, 6, 8, 35, 79 |
| Tetramorium bicarinatum*                   | (Nylander, 1846): 1061        | 1919 | 3, 6, 8, 35, 36 |
| Tetramorium carinatum                      | (Smith, F. 1859): 148         | 1919 | 3, 8      |
| Tetramorium insolens                       | (Smith, F., 1861)             | 1934 | 6, 8, 18, 34, 35 |
| Tetramorium lanuginosum*                   | Mayr, 1870: 976               | 1935 | 8, 69     |
| Tetramorium mayri                          | (Mann, 1919): 351             | 1919 | 3, 8, 79  |
| Tetramorium melanogyna                     | Mann, 1919: 345               | 1919 | 3, 8, 79  |
| Tetramorium mutatum                        | Bolton, 1985: 247             | 1919 | 3, 8, 69  |
| Tetramorium pacificum                      | Mayr, 1870: 976               | 1934 | 6, 8, 18, 34, 35 |
| Tetramorium salomo                         | Mann, 1919: 344               | 1935 | 8, 35, 79 |
| Tetramorium simillimum*                    | (Smith, F. 1851): 118         | 1959 | 15, 34, 35, 36, 79 |
| Tetramorium tanganum                       | Mayr, 1870: 976               | 1919 | 3, 8, 15, 18, 34, 35 |
| Tetramorium vombis                         | Bolton, 1976: 358             | 1985 | 3, 34, 69 |
| Vollenhovia dentata                        | Mann, 1919: 325               | 1919 | 3, 8, 24, 79 |
| Vollenhovia dentata marginata              | Mann, 1919: 327               | 1919 | 3, 8, 24, 79 |
| Vollenhovia elysi                          | Mann, 1919: 327               | 1919 | 3, 8, 24  |
| Vollenhovia foveaceps                      | Mann, 1919: 328               | 1919 | 3, 8, 24  |
| Vollenhovia loboi                         | Mann, 1919: 324               | 1919 | 3, 8, 24  |
| Vollenhovia oblonga                        | (Smith, F. 1861): 46          | 1959 | 18, 34, 43 |
| Vollenhovia oblonga pedestris              | (Smith, F. 1860): 107         | 1919 | 3, 8, 15, 79 |
| Vollenhovia subsilis                       | Emery, 1887: 454              | 1919 | 3, 8      |
| Wasmannia atropunctata*                    | (Roger, 1863a): 183           | 1984 | 40, 75, 76, 77, 79 |

8 Misidentified as Tetramorium guineense (Bernard).
9 Misidentified as Tetramorium obesum André.
| Taxon                | Author          | Year | Reference          |
|---------------------|-----------------|------|--------------------|
| Anochetus cato      | Forel, 1901: 6  | 1919 | 3, 8, 17, 19, 79, 81 |
| Anochetus graeffei  | Mayr, 1870: 961 | 1919 | 3, 8, 15, 17, 19, 34, 36, 65, 79, 81 |
| Anochetus isolatus  | Mann, 1919: 302 | 1919 | 3, 8, 17, 19, 34, 37, 65, 79, 81 |
| Cryptopone butteli  | Forel, 1913: 9  | 1965 | 81                 |
| Cryptopone crusicornis | (Emery, 1897): 533 | 1965 | 81                 |
| Cryptopone fusciceps | (Emery, 1900): 321 | 1919 | 3, 4, 8, 14, 17, 81 |
| Cryptopone testacea | (Emery, 1893): cclxxv | 1919 | 3, 4, 8, 14, 17, 32, 81 |
| Hypoponera biroi    | (Emery, 1900): 7 | 1959 | 17, 34             |
| Hypoponera confinis | (Roger, 1860): 284 | 1959 | 17                 |
| Hypoponera pallidula | (Emery, 1900): 320 | 1919 | 3, 8, 9             |
| Hypoponera papauna  | (Emery, 1900): 319 | 1919 | 3, 8, 79            |
| Hypoponera pruinosa | (Emery, 1900): 319 | 1919 | 3, 8, 9, 14, 17, 34, 79 |
| Hypoponera punctatissima* | (Roger, 1859): 246 | 1976 | 34, 79             |
| Hypoponera ragausi* | (Forel, 1899): 28  | 1919 | 3, 8, 14, 17, 36   |
| Hypoponera sororcula | (Wilson, 1958a): 338 | 1958 | 14, 17             |
| Leptogenys diminuta | (Smith, F. 1857): 69 | 1919 | 3, 8, 17, 79       |
| Leptogenys foreli   | Mann, 1919: 297  | 1919 | 3, 8, 13, 17, 18, 19, 26, 34, 36, 79, 81 |
| Leptogenys oesobia  | Wilson, 1958b: 131 | 1958 | 3, 13, 17         |
| Leptogenys truncata | Mann, 1919: 26   | 1919 | 3, 17              |
| Odontomachus malignus | Smith, F. 1859: 144 | 1919 | 3, 17, 18, 19, 33, 34, 63, 81 |
| Odontomachus rufithorax | Emery, 1911: 534 | 1919 | 3, 17, 19, 33, 81  |
| Odontomachus saevissimus | (Smith, F. 1858): 159 | 1959 | 15, 33, 81        |
| Odontomachus simillimus | (Smith, F. 1858): 80 | 1910 | 1, 3, 13, 17, 18, |
| Pachycondyla acuta  | Emery, 1900      | 1958 | 14, 17             |
| Pachycondyla aequalis | (Mann, 1919): 289 | 1919 | 3, 8, 14, 17, 79  |
| Pachycondyla croceicornis | (Emery, 1900): 315 | 1919 | 3, 14, 17, 36, 79  |
| Pachycondyla darwinii | (Forel, 1893): 460 | 1959 | 17                 |
| Pachycondyla exarata | Emery, 1901b: 156 | 1919 | 3, 8                |
| Pachycondyla manni  | (Viehmeyer, 1924): 228 | 1924 | 3, 14, 17        |
| Pachycondyla melanocholica | Smith, F. 1865: 71 | 1919 | 3                 |
| Pachycondyla pappana | (Viehmeyer, 1914): 608 | 1919 | 3, 9               |
| Pachycondyla sheldonii | (Mann, 1919): 292 | 1919 | 3, 8, 14, 17       |
| Pachycondyla stigma* | (Fabricius, 1804): 400 | 1919 | 3, 8, 9, 15, 17, 18, 34, 79 |
| Plectryphyes parallela | (Smith, F. 1859): 143 | 1919 | 3, 9, 17          |
| Ponera clavicornis  | Emery, 1900: 317 | 1919 | 3, 8, 10, 25, 34, 81 |
| Ponera incerta      | (Wheeler, W.M. 1933): 18 | 1959 | 17, 25, 81        |
| Ponera swezeyi      | (Wheeler, W.M. 1933): 16 | 2009 | 79                 |

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10 Referred to as Leptogenys ?foreli.
11 Specimens from Malaita referred to by Mann (1919) as Leptogenys (Lobopelta) diminuta var. laeviceps Smith, F. (Wilson 1958a).
12 Referred to as Odontomachus ?malignus.
13 Misidentified as Odontomachus insularis Guérin-Méneville.
14 Misidentified as Odontomachus haematodus (Linnaeus).
15 Referred to as Ponera ?clavicornis.
Appendix 2

Presumed undescribed species recorded from the Solomon Islands arranged by species name. The ‘Year’ column refers to the year the species was first recorded from the Solomon Islands. Reference codes are the same as those used in Appendix 11.

| Taxon                          | Author                        | Year | Reference |
|-------------------------------|-------------------------------|------|-----------|
| Adelomyrmex sp. BP02          | nr. hirsutus                  | 2008 | 79        |
| Adelomyrmex sp. BP03          | as “Adelomyrmex (Arctomyrmex) sp.” | 1976 | 34        |
| Arnoldius sp. BP01            | as “nr. flavus”               | 1959 | 15        |
| Camponotus sp. BP02           | nr. guppyi                    | 2008 | 79        |
| Camponotus sp. BP05           | nr. elysi                     | 2008 | 79        |
| Camponotus sp. BP06           | as “Camponotus (Colobopsis) sp. A” | 1976 | 34        |
| Camponotus sp. BP07           | as “Camponotus (Colobopsis) sp. B” | 1976 | 34        |
| Camponotus sp. BP08           | as “Camponotus (Colobopsis) sp. C” | 1976 | 34        |
| Camponotus sp. BP09           | as “Camponotus (Colobopsis spp. (2)” | 1959 | 18,34     |
| Camponotus sp. BP10           | as “Camponotus (Colobopsis spp. (2)” | 1959 | 18,34     |
| Cerapachys sp. BP01           | as “Cerapachys (Syscia) sp. 1” | 1959 | 18,34     |
| Colobostruma sp. BP01         | nr. foliacea                  | 2008 | 79        |
| Cryptopone sp. BP01           | nr. testacea                  | 2008 | 79        |
| Myopias sp. BP01              |                               | 2008 | 79        |
| Myopias sp. BP02              |                               | 2008 | 79        |
| Myopias sp. BP03              |                               | 2008 | 79        |
| Myopias sp. BP04              | as “Myopias cf. tenuis”       | 1983 | 39        |
| Myrmecina sp. BP01            |                               | 2008 | 79        |
| Myrmecina sp. BP03            |                               | 2008 | 79        |
| Pheidole sp. BP02             |                               | 2008 | 79        |
| Pheidole sp. BP12             | nr. mendanai                  | 2008 | 79        |
| Pheidole sp. BP13             | as “Pheidole (Pheidolacanthinus) sp.” | 1976 | 34        |
| Platythyrea sp. BP01          | as “Platythyrea sp.”          | 1976 | 34        |
| Polyrhachis sp. BP01          | Polyrhachis (Myrmhopla) nr. bismarckensis | 2008 | 79        |
| Polyrhachis sp. BP03          | as “Polyrhachis (Chariomyrma) sp.” | 1976 | 34        |
| Regeria sp. BP01              | nr. stigmatica                | 2008 | 79        |
| Strumigenys sp. BP05          | nr. mocarryi                  | 2008 | 79        |
| Vollenhovia sp. BP01          | nr. elysi                     | 2008 | 79        |
| Vollenhovia sp. BP02          | nr. loboii                    | 2008 | 79        |
| Vollenhovia sp. BP03          | as “Vollenhovia sp.”          | 1976 | 34        |
Appendix 3

Occurrence records of individual islands and island groups from which ant species have been recorded arranged by species name and island/island group name. The valid names refer to those presented in Appendix 1. Infraspecific names are abbreviated from trinomials to binomials composed of the genus and infraspecific name (e.g. *Nylanderia obscura bismarckensis* (Forel) is presented as “*N. bismarckensis*”). Asterisks (*) are appended to morphospecies presumed to be undescribed species (Appendix 2). Morphospecies that we were unable to determine but might represent previously described species are also presented. Individual island names appear in regular type and island group names appear in uppercase bold type. Island groups and their constituent islands from which ants have been recorded are presented in Table 1. The penultimate column ‘Solomon Is.’ includes species records for which no individual island or island group was associated (Brown 1960; 1975; 1976; 1995; Chapman and Capco 1951; Ettershank 1966; Forel 1893; Lin and Wu 1996; Shattuck et al. 2012; Wilson 1959a). The ‘Total’ column sums the number of islands from which each species is recorded, but does not include records from the aforementioned ‘Solomon Is.’ column.
| Taxon | Acropyga | Adelomyrmex | Amblyopone | Anochetus | Anonychomyrma | Anoplolepis | Arnoldius | Acanthosolen | Acanthostyla | Anoplolepis | Blenderomyrmex | Brachymyrmex | Camponotus | Crematogaster |
|-------|----------|-------------|------------|-----------|--------------|-------------|-----------|-------------|-------------|--------------|----------------|-------------|-----------|--------------|
|        | A. acutiventris | A. lauta | A. oceanica | A. cato | A. dimorpha | A. gracilipes | A. sp. BP02* | A. sp. BP03* | A. australis | A. isolatus | A. dianepha | A. gaecidus | A. pacifica | B. odoratus | C. bedoti |
| Total | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Taxon | Acropyga | Adelomyrmex | Amblyopone | Anochetus | Anonychomyrma | Anoplolepis | Arnoldius | Acanthosolen | Acanthostyla | Anoplolepis | Blenderomyrmex | Brachymyrmex | Camponotus | Crematogaster |
|-------|----------|-------------|------------|-----------|--------------|-------------|-----------|-------------|-------------|--------------|----------------|-------------|-----------|--------------|
|        | A. acutiventris | A. lauta | A. oceanica | A. cato | A. dimorpha | A. gracilipes | A. sp. BP02* | A. sp. BP03* | A. australis | A. isolatus | A. dianepha | A. gaecidus | A. pacifica | B. odoratus | C. bedoti |
| Total | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Island | Taxon | C. chloroticus | C. elysii | C. guppyi | C. loa | C. novaehollandiae | C. sp. BP01 | C. sp. BP02 | C. sp. BP04 | C. sp. BP05 | C. sp. BP06 | C. sp. BP07 | C. sp. BP08 | C. sp. BP09 | C. sp. BP10* |
|--------|-------|----------------|-----------|-----------|--------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| SOLOMON IS. | Anuta | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Bellona | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Choiseul | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Guadalcanal | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Kolombangara | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Makira | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Malaita | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Malaupaina | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Matema | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Mbanika | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | New Georgia | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | NGGELA IS. | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Nggela Sule | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| REEF IS. | Olongi Island | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | ONANGI IS. | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| OLU MALAU IS. | Nuapala | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Nggela Sule | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| NEVE GEORGIA IS. | New Georgia | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Nggela Sule | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Paulina | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Makin | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Molinupina | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Molinu | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Morins | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Nggela Sule | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | San Jorge | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Santa Cruz | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Santa Isabel | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Savo | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Shortland | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Tikopia | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Tulagi | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Ugi | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Vangunu | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Vanikoro | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| | Vella Lavella | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| Taxon     | Anuta | Bellona | Choiseul | Guadalcanal | Makira | Malaita | Maloasina | Mafina | Malone | New Georgia | NGGELA IS. | Nggela Sule | Olanga Jawa Is. | Owaraha | Overoala | REEF IS. | Rendova | Rennell | Russell Is. | San Jorge | Santa Cruz | Santa Isabel | Savo | Shortland | Sikeiana | Tikopia | Taligi | Ugi | Vanuatu | Vauxba | Vella Lavella | SOLOMON IS. | Total |
|-----------|-------|---------|----------|-------------|--------|---------|-----------|--------|--------|-------------|-----------|-------------|------------------|---------|----------|---------|---------|--------|-----------|----------|----------|-------------|------|-----------|---------|--------|--------|-----|---------|--------|----------------|----------|
| C. terricola | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. sp. BP01* |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| Colobostruma |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. foliacea | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. sp. BP01* |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| Crematogaster |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. abrupta | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. delysi | x     |         | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. foxi | x     |         |         |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. nesiotis |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. obnigra | x     |         | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. scita | x     |         |         |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. wheeleri |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. butteli | x     |         |         |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. crassicornis |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. fusiceps | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. testacea | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| C. sp. BP01* |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| Dilobocondyla |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| D. sp. BP01 |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| Discothyrea |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| D. clavicornis | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| Eurhopalothrix |       |         |           |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
| E. brevicornis | x     | x       | x        |             |        |         |           |        |        |             |          |             |                  |         |           |         |        |        |           |         |          |             |      |          |        |        |        |     |         |        |----------------|----------|
### Checklist of the ants (Hymenoptera, Formicidae) of the Solomon Islands

| Island | **E. greensladei** | **E. isabellae** | **E. procera** | **Gnamptogenys** | **Hypoponera** | **Iridomyrmex** |
|--------|------------------|-----------------|----------------|----------------|----------------|---------------|
| SOLOMON IS. |                 |                 |                |                |               |               |
| Anuta   |                 |                 | xx             |                |               |               |
| Bellona |                 |                 |                |                |               |               |
| Choiseul|                 |                 | xx             |                |               |               |
| Guadalcanal |           |                 |                |                |               |               |
| Kolombangara |           |                 |                |                |               |               |
| Makira  |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaupaina |            |                 |                |                |               |               |
| Matema  |                 |                 | xx             |                |               |               |
| Mbanika |                 |                 | xx             |                |               |               |
| NEW GEORGIA IS. |             |                 | xx             |                |               |               |
| New Georgia |            |                 |                |                |               |               |
| Nggela Sule |           |                 | xx             |                |               |               |
| Nggela Lagoon |           |                 | xx             |                |               |               |
| OLU MALAU IS. |           |                 | xx             |                |               |               |
| Nupani |                 |                 | xx             |                |               |               |
| Nggela Sule |           |                 | xx             |                |               |               |
| SANTA CRUZ IS. |           |                 | xx             |                |               |               |
| Santa Cruz |            |                 | xx             |                |               |               |
| Santa Cruz |            |                 | xx             |                |               |               |
| Samoana |                 |                 | xx             |                |               |               |
| Russell L. |            |                 | xx             |                |               |               |
| Rennell |                 |                 | xx             |                |               |               |
| Raoul Island |           |                 | xx             |                |               |               |
| REEF IS. |                 |                 | xx             |                |               |               |
| Chuliana |                 |                 | xx             |                |               |               |
| O mono Island |           |                 | xx             |                |               |               |
| NEW HEBRIDES |            |                 | xx             | xx             |               |               |
| New Hebrides |           |                 | xx             | xx             |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |
| Malaita |                 |                 | xx             |                |               |               |

*Note: XX indicates the presence of the ant species on the island.*
| Taxon | Annua | Bolaona | Chioneal | Guadalcanal | Kalambangara | Malaita | Malaitapine | Matanica | Mavala | New Georgia | NGGELA JS. | Nggela Sule | Omgong Jawa | Omgong Jawa Is. | Omuranga | Omauranga | REEF JS. | Rendova | Rewell | Russell Is. | San Jorge | Santa Cruz | Santa Isabel | Savo | Shortland | Sikaitana | Tolepia | Tafali | Ugi | Vangunu | Vanikoro | Vella Lavella | SOLOMON IS. | Total |
|-------|-------|---------|---------|------------|--------------|---------|-------------|---------|--------|-------------|-----------|------------|-------------|-----------------|----------|-----------|---------|---------|---------|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| I. anceps | x | x | x | x | x | x | x | x | x | x | x | x | 11 |
| I. pallidus | x | | | | | | | | | | | | 1 |
| I. russoniger | | | | | | | | | | | | | 1 |
| Leptogenys | | | | | | | | | | | | | 1 |
| L. diminuta | x | x | | | | | | x | | x | | 4 |
| L. foreli | x | x | x | x | | | | | | | | | 4 |
| L. orebia | x | | | | | | | | | | | | 1 |
| L. truncata | | | | | | | | x | x | | | 2 |
| Lordomyrma | | | | | | | | | | | | | 2 |
| L. epinotalis | x | x | x | x | x | x | x | x | x | 7 |
| Monomorium | | | | | | | | | | | | | 7 |
| M. australicum | x | x | x | | | x | x | | | | | 5 |
| M. destructor | x | | | | | | | | | | | | 1 |
| M. florica | x | x | x | x | x | x | x | x | | | | | 8 |
| M. pharaonis | x | x | x | x | | | | | | | | | 5 |
| Myopias | | | | | | | | | | | | | 5 |
| M. sp. BP01* | x | | | | | | | | | | | | 1 |
| M. sp. BP02* | x | | | | | | | | | | | | 1 |
| M. sp. BP03* | x | | | | | | | | | | | | 1 |
| M. sp. BP04* | x | x | | | | | | | | | | | 2 |
| Myopopone | | | | | | | | | | | | | 2 |
| M. castanea | x | x | x | x | x | x | x | x | x | x | x | 13 |
| Myrmecina | | | | | | | | | | | | | 13 |
| M. modesta | x | x | | | | | | x | x | x | x | 8 |
| M. subarmata | x | | | | | | | | | | | | 1 |
| Taxon | 1 | 1 | 1 | 3 | 4 | 9 | 1 | 3 | 7 | 15 | 3 | 1 | 6 | 4 | 2 | 27 | 13 | 0 | 6 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOLITON IS. | | | | | | | | | | | | | | | | | | | |
| Vila Luma | | | | | | | | | | | | | | | | | | | |
| Vangunu | | | | | | | | | | | | | | | | | | | |
| Ligi | | | | | | | | | | | | | | | | | | | |
| Tulagi | | | | | | | | | | | | | | | | | | | |
| Tikopia | | | | | | | | | | | | | | | | | | | |
| New Georgia | | | | | | | | | | | | | | | | | | | |
| Nggela Sule | | | | | | | | | | | | | | | | | | | |
| REEF IS. | | | | | | | | | | | | | | | | | | | |
| Owaysa | | | | | | | | | | | | | | | | | | | |
| NEW GEORGIA IS. | | | | | | | | | | | | | | | | | | | |
| New Georgia | | | | | | | | | | | | | | | | | | | |
| Malimba | | | | | | | | | | | | | | | | | | | |
| Malimba | | | | | | | | | | | | | | | | | | | |
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| Malimba | | | | | | | | | | | | | | | | | | | |
| Taxon           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-----------------|---|---|---|---|---|---|---|---|---|----|----|
| **SOLOMON IS.** |   |   |   |   |   |   |   |   |   |    |    |
| Vella lumina    |   |   |   |   |   |   |   |   |   |    |    |
| V. frisaloni    |   |   |   |   |   |   |   |   |   |    |    |
| V. frisaloni    |   |   |   |   |   |   |   |   |   |    |    |
| *Lig.*          |   |   |   |   |   |   |   |   |   |    |    |
| Tulagi          |   |   |   |   |   |   |   |   |   |    |    |
| Thalasa         |   |   |   |   |   |   |   |   |   |    |    |
| Shikina         |   |   |   |   |   |   |   |   |   |    |    |
| Shinaidual      |   |   |   |   |   |   |   |   |   |    |    |
| *Santa Cruz I.* |   |   |   |   |   |   |   |   |   |    |    |
| Santa Cruz I.   |   |   |   |   |   |   |   |   |   |    |    |
| Santa Cruz I.   |   |   |   |   |   |   |   |   |   |    |    |
| *Santa Isabel*  |   |   |   |   |   |   |   |   |   |    |    |
| Savo            |   |   |   |   |   |   |   |   |   |    |    |
| Nggela Sule     |   |   |   |   |   |   |   |   |   |    |    |
| Nggela Sule     |   |   |   |   |   |   |   |   |   |    |    |
| Nggela Sule     |   |   |   |   |   |   |   |   |   |    |    |
| **NEW GREGA I.S.** |   |   |   |   |   |   |   |   |   |    |    |
| New Georgia I.  |   |   |   |   |   |   |   |   |   |    |    |
| Ahlii           |   |   |   |   |   |   |   |   |   |    |    |
| Ahlii           |   |   |   |   |   |   |   |   |   |    |    |
| Ahlii           |   |   |   |   |   |   |   |   |   |    |    |
| Holomauriana    |   |   |   |   |   |   |   |   |   |    |    |
| Holomauriana    |   |   |   |   |   |   |   |   |   |    |    |
| Holomauriana    |   |   |   |   |   |   |   |   |   |    |    |
| Annuin          |   |   |   |   |   |   |   |   |   |    |    |
| Annuin          |   |   |   |   |   |   |   |   |   |    |    |
| Annuin          |   |   |   |   |   |   |   |   |   |    |    |
| Taxon           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| *P. acuta*      | x |   |   |   |   |   |   |   |   |    |    |
| *P. aequalis*   | x | x | x |   |   |   |   |   |   |    |    |
| *P. croceicornis* | x | x | x |   |   |   |   |   |   |    |    |
| *P. darwinii*   |   |   |   |   |   |   |   |   |   |    |    |
| *P. exarata*    | x | x | x |   |   |   |   |   |   |    |    |
| *P. manni*      | x |   |   |   |   |   |   |   |   |    |    |
| *P. melancholica* | x |   |   |   |   |   |   |   |   |    |    |
| *P. papuana*    | x |   |   |   |   |   |   |   |   |    |    |
| *P. sheldoni*   | x |   |   |   |   |   |   |   |   |    |    |
| *P. stigma*     | x | x | x | x | x | x | x | x | x |    |   |
| *P. sp. BP01*   | x |   |   |   |   |   |   |   |   |    |    |
| *P. minutula*   | x |   |   |   |   |   |   |   |   |    |    |
| *P. longicornis* | x | x | x | x | x | x | x | x | x |    |    |
| *P. belli*      |   |   |   |   |   |   |   |   |   |    |    |
| *P. erato*      |   |   |   |   |   |   |   |   |   |    |    |
| *P. fuscula*    | x |   |   |   |   |   |   |   |   |    |    |
| *P. isis*       |   |   |   |   |   |   |   |   |   |    |    |
| *P. taki*       |   |   |   |   |   |   |   |   |   |    |    |
| *P. megacephala* | x | x | x | x | x | x | x | x | x |    |   |
| *P. mendanai*   |   |   |   |   |   |   |   |   |   |    |    |
| *P. nindi*      | x |   |   |   |   |   |   |   |   |    |    |
| *P. oceanica*   | x | x | x | x | x | x | x | x | x |    |    |
| Taxon                  | Anuta | Bellona | Choiseul | Guadalcanal | Malaita | Malaitopia | Matema | New Georgia | NEW GEORGIA IS. | Nggela Sule | Nggela IS. | Nupani | Omung Java IS. | Onuma | Owaraha | REEF IS. | Rendova | Rennell | Russell IS. | San Jorge | Santa Cruz | Santa Isabel | Savo | Shortland | Slekiana | Tikopia | Tugeli | Ugi | Vangunu | Vanikoro | Vella Lavella | Total |
|-----------------------|-------|---------|----------|-------------|---------|------------|--------|-------------|----------------|-------------|------------|--------|----------------|-------|---------|-----------|----------|---------|-------------|-----------|-----------|------------|------|-----------|----------|---------|-------|-----|--------|---------|----------------|------|
| *P. philemon*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. sexspinosa*       |       | x       | x        |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 7   |
| *P. fuscescens*       |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 10  |
| *P. umbonata*         |       | x       | x        |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 2   |
| *P. sp. BP02*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *P. sp. BP09*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *P. sp. BP10*         |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *P. sp. BP11*         |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *P. sp. BP12*         |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *P. sp. BP13*         |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 13  |
| *Philidris*           |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. myrmecodiae*      |       | x       | x        |             |         |            |        |             | x                | x           |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 13  |
| *Plagiolepis*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. alluaudi*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *Platythyrea*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. parallela*        |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 2   |
| *P. sp. BP01*         |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *Podomyrma*           |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. salomo*           |       |         |          |             |         |            |        |             | x                | x           |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 4   |
| *P. woodfordi*        |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 2   |
| *Polyrhachis*         |       |         |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. andromache*       |       |         |          |             |         |            |        |             | x                |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 1   |
| *P. annae*            |       | x       | x        | x           | x        |            |        |             | x                | x           |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 10  |
| *P. acutinota*        |       | x       |          |             |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        |     |
| *P. argentea*         |       |         | x        | x           |         |            |        |             |                 |             |            |        |                |       |         |           |          |         |             |           |           |             |     |           |          |         |       |     |        |        |                        | 3   |
| Taxon              | Anuta | Baloma | Chonial | Guadalcanal | Malaita | Malaitapine | Mavera | Mavura | New Georgia | NGGELA IS. | Nggela Sule | Otagi | Otagi Jawa Is. | Omata | Omata Jawa Is. | Ontong Java Is. | Ontong Java Is. | Oro Hola | Oro Hola | Rendova | Rennell | Rennell Is. | San Jorge | Santa Cruz | Santa Cruz | Santa Isabel | Savo | Shortland | Sikotani | Tallopa | Talapalo | Ugi | Vanga | Vangi | Vanikoro | Vella Lavella | Vella Lavella | Total |
|--------------------|-------|--------|---------|-------------|---------|-------------|--------|---------|-------------|------------|-------------|-------|----------------|--------|----------------|----------------|----------------|--------|--------|---------|---------|------------|---------|----------|----------|-----------|------|-----------|----------|--------|--------|------|--------|--------|--------|
| P. brunneipes      | x     |        |         |             |         |             |        |         |             |            |             |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. campbelli       |       | x      |         |             |         |             |        |         |             |            |             |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. dahlia         | x     | x      | x       | x           | x       |             |        |         |             | x           | x           | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. emeryana       |       |        |         |             |         |             |        |         |             |             | x           |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. fulkora        | x     |        |         |             |         |             |        |         |             |             | x           |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. geminata       |       | x      |         |             |         |             |        |         |             |             |             |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. greensladei    | x     |        |         |             |         |             |        |         |             |             |             |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. ibona          |       | x      |         |             |         |             |        |         |             |             |             |       |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. johnsoni       | x     | x      | x       | x           | x       |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. kaipi          |       | x      | x       |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. litigious      |       |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. malaensis      | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. nofra          | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. osae           | x     | x      |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. pacifica       | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. rere           |       | x      | x       |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. salomo         | x     | x      |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. santschii      |       |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. setosa         | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. similis        | x     | x      | x       | x           | x       |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. ugensis        | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. ulyses         | x     | x      |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. undulata       | x     | x      |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. wheeleri       | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
| P. sp. BP01       | x     |        |         |             |         |             |        |         |             |             |             | x    |                |        |                |                |                |         |         |         |         |            |        |          |          |           |      |            |         |        |        |      |        |        |
**Checklist of the ants (Hymenoptera, Formicidae) of the Solomon Islands...**

| Island         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------|---|---|---|---|---|---|---|---|---|----|----|----|
| **SOLOMON IS.**|   |   |   |   |   |   | x |   |   |    |    |    |
| Vida luisiana  |   |   |   |   |   |   |   |   |   |    |    |    |
| Vonaturn        |   |   |   |   |   |   |   |   |   |    |    |    |
| Vingsamu       |   |   |   |   |   |   |   |   |   |    |    |    |
| Lii             |   |   |   |   |   |   |   |   |   |    |    |    |
| Thiaga         |   |   |   |   |   |   |   |   |   |    |    |    |
| Tingara        |   |   |   |   |   |   |   |   |   |    |    |    |
| Sitamit        |   |   |   |   |   |   |   |   |   |    |    |    |
| Shairomd       |   |   |   |   |   |   |   |   |   |    |    |    |
| Shina laaka    |   |   |   |   |   |   |   |   |   |    |    |    |
| SANTA CRUZ IS. |   |   |   |   |   |   |   |   |   |    |    |    |
| Shina Cruz     |   |   |   |   |   |   |   |   |   |    |    |    |
| Shima Chathua  |   |   |   |   |   |   |   |   |   |    |    |    |
| San Jaffe      |   |   |   |   |   |   |   |   |   |    |    |    |
| Rausil I       |   |   |   |   |   |   |   |   |   |    |    |    |
| Renell         |   |   |   |   |   |   |   |   |   |    |    |    |
| Rendona        |   |   |   |   |   |   |   |   |   |    |    |    |
| RENNELL REEF IS |   |   |   |   |   |   |   |   |   |    |    |    |
| Otuima Island  |   |   |   |   |   |   |   |   |   |    |    |    |
| OLU MALAU IS.  |   |   |   |   |   |   |   |   |   |    |    |    |
| Nganu          |   |   |   |   |   |   |   |   |   |    |    |    |
| Ngelga Is.     |   |   |   |   |   |   |   |   |   |    |    |    |
| NEW GEORGIA IS. |   |   |   |   |   |   |   |   |   |    |    |    |
| New Georgia    |   |   |   |   |   |   |   |   |   |    |    |    |
| Dziduma        |   |   |   |   |   |   |   |   |   |    |    |    |
| Dalera         |   |   |   |   |   |   |   |   |   |    |    |    |
| Pulau_panui    |   |   |   |   |   |   |   |   |   |    |    |    |
| Mikania        |   |   |   |   |   |   |   |   |   |    |    |    |
| Mikai          |   |   |   |   |   |   |   |   |   |    |    |    |
| Kolombangana   |   |   |   |   |   |   |   |   |   |    |    |    |
| Chiludaidud    |   |   |   |   |   |   |   |   |   |    |    |    |
| Chiling        |   |   |   |   |   |   |   |   |   |    |    |    |
| Elidoma        |   |   |   |   |   |   |   |   |   |    |    |    |
| Anuna          |   |   |   |   |   |   |   |   |   |    |    |    |

| Taxon         | P. sp. BP03 | P. salomonis | P. incerta | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis | P. salomonis |
|---------------|-------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Ponera        | x           |              |            |              |              |              |              |              |              |              |              |              |              |              |              |              |
| P. clavicornis|              | x x x x x x |            |              |              |              |              |              |              |              |              |              |              |              |              |              |
| P. incerta    |              |              | x x x      |              |              |              |              |              |              |              |              |              |              |              |              |              |
| P. nigra      |              |              |            | x x x x x x |              |              |              |              |              |              |              |              |              |              |              |              |
| P. papuanum   |              |              |            |              | x x x x x x |              |              |              |              |              |              |              |              |              |              |              |
| P. australis  |              |              |            |              |              | x x x x x x |              |              |              |              |              |              |              |              |              |              |
| P. brunniceps |              |              |            |              |              |              | x x x x x x |              |              |              |              |              |              |              |              |              |
| P. lebetus    |              |              |            |              |              |              |              | x x x x x x |              |              |              |              |              |              |              |              |
| P. legeri     |              |              |            |              |              |              |              |              | x x x x x x |              |              |              |              |              |              |              |
| P. affinis    |              |              |            |              |              |              |              |              |              | x x x x x x |              |              |              |              |              |              |
| P. salomonis  |              |              |            |              |              |              |              |              |              |              | x x x x x x |              |              |              |              |              |
| P. breve     |              |              |            |              |              |              |              |              |              |              |              | x x x x x x |              |              |              |              |
| P. affinis    |              |              |            |              |              |              |              |              |              |              |              |              | x x x x x x |              |              |              |
| P. melanotipes|              |              |            |              |              |              |              |              |              |              |              |              |              | x x x x x x |              |              |              |
| P. nigra      |              |              |            |              |              |              |              |              |              |              |              |              |              |              | x x x x x x |              |              |
| P. australis  |              |              |            |              |              |              |              |              |              |              |              |              |              |              |              | x x x x x x |              |
| P. salomonis  |              |              |            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| P. affinis    |              |              |            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| Rhytidoponera |              |              |            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| *Rogeria*     |              |              |            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| Taxon       | Anuta | Bellona | Choiseul | Guadalcanal | Makira | Malaita | Matema | Malaupaina | Mbanika | New Georgia | NGella | Nggela Sule | Nupani | Olu Malaul | Russel Is. | San Jorge | Santa Cruz | Santa Isabel | Savo | Shortland | Sikeiana | Tikopia | Tufui | Ugi | Vangunu | Vanikoro | Vella Lavella | SOLOMON | Total |
|------------|-------|---------|----------|-------------|--------|---------|--------|------------|---------|-------------|--------|-------------|--------|------------|-------------|----------|-------------|-------------|--------|---------|--------|--------|--------|------|--------|----------|---------|---------|------|--------|------|--------|
| R. megastigmatica | x     | x       |          |             |        |         |        |            |         |             |        |             |        |            |             |         |             |             | x      |         |      |        |        |      |        |          | x 2    |         |     |
| R. stigmatica | x     |         |          |             |        |         |        |            |         |             | x      |             | x      |            |             |         |             |             | x      |         |      |        |        |      |        |          | x 4    |         |     |
| R. sp. BP01* | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            |             |         |             |             | x      |         |      |        |        |      |        |          | x 1    |         |     |
| Romblonella  |       |         |          |             |        |         |        | R. elysi |         |             |        |             | x      |             |            |         |             |             | x      |         |      |        |        |      |        |          | x 5    |         |     |
| Solenopsis   |       |         |          |             |        |         |        |            |         |             |        |             | x      |            |             |         |             |             | x      |         |      |        |        |      |        |          | x 1    |         |     |
| S. geminata  | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            |             |         |             |             |         |         |      |        |        |      |        |          |         |         |     |
| S. papauna   | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            |             |         |             |             |         |         |      |        |        |      |        |          |         |         |     |
| S. pawaensis | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             | x      |         |      |        |        |      |        |          |         |         |     |
| Stereomyrmex |       |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             |         |         |      |        |        |      |        |          | x 3    |         |     |
| S. dispar    | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             |         |         |      |        |        |      |        |          |         |         |     |
| Stigmatomma  |       |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             | x      |         |      |        |        |      |        |          | x 10   |         |     |
| S. celata    | x     | x       | x         | x           | x      |         | x       | x          | x       |             | x      |             | x       | x         |             |         |             |             | x      |         |      |        |        |      |        |          |         |         |     |
| S. gnoma     | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             |         |         |      |        |        |      |        |          |         |         |     |
| Strumigenys  |       |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             | x      |         |      |        |        |      |        |          | x 6    |         |     |
| S. chyzeri   | x     | x       | x         | x           | x      |         | x       | x          | x       |             | x      |             | x       | x         |             |         |             |             | x      |         |      |        |        |      |        |          | x 9    |         |     |
| S. devoliana | x     |         |          |             |        |         |        |            |         |             |        |             | x      |            | x         |         |             |             | x      |         |      |        |        |      |        |          | x 1    |         |     |
| S. emmae    | x     | x       | x         | x           | x      |         | x       | x          |          |             | x      |             | x       | x         | x         | x       |             |             | x      |         |      |        |        |      |        |          | x 11   |         |     |
| S. caryrera  | x     |         | x         | x           | x      |         | x       |            |          |             | x      |             | x       | x         | x         | x       |             |             | x      |         |      |        |        |      |        |          | x 5    |         |     |
| S. frisaldzkei | x    |         |          |             |        |         |        |            |          |             | x      |             | x       | x         | x         | x       |             |             | x      |         |      |        |        |      |        |          | x 2    |         |     |
| S. godeffroyi | x     | x       | x         | x           | x      |         | x       | x          | x       |             | x      |             | x       | x         | x         | x       |             |             | x      |         |      |        |        |      |        |          |         |         |     |
| S. karawajewi | x    | x       | x         |             | x      |         |        |            |          |             | x      |             | x       | x         | x         |         |             |             |         |         |      |        |        |      |        |          |         |         |     |
| S. membranifera | x | x       |          |             | x      |         |        |            |          |             | x      |             | x       | x         | x         |         |             |             |         |         |      |        |        |      |        |          | x 4    |         |     |
| S. mocaryi   | x     |         | x         | x           |        |         |        |            |          |             | x      |             | x       | x         | x         |         |             |             |         |         |      |        |        |      |        |          |         |         |     |
| S. rogeri    | x     |         |          |             |        |         |        |            |          |             | x      |             | x       | x         | x         |         |             |             |         |         |      |        |        |      |        |          | x 1    |         |     |
| Taxon          | Annua | Belona | Boscan | Guadalcanal | Kolekole | Madera | Malaita | Malampa | M覺ama | New Georgia | NGELLA Is. | NGela Is. | NEW GEORGIA IS. | OLUMALAU IS. | Orawlera | Omung Is. | REEF Is. | Rendova | Rennell | Russell Is. | San Jorge | Santa Cruz | Santa Isabel | Savo | Savo | SANTA CRUZ IS. | S&A & Ch. | S&A & L.I. | SHITANIA | Talapia | Taligi | Vangunu | Vangolu | Vella Lavella | Vella Lavella | Vella Lavella | Total |
|---------------|-------|--------|--------|-------------|---------|--------|---------|---------|---------|-------------|------------|-----------|-----------------|-------------|----------|------------|---------|---------|---------|----------|---------|----------|------------|-------|------|-----------------|----------|----------|-----------|-------|-------|-------------|----------|----------|--------|
| S. szalayi    | x     | x x    |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| S. undras     |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| S. yaleopleura| x     |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| S. sp. BP05   |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| S. sp. BP06   |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| Tapinoma      |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. melanocephalum | x | x | x | x | x |         |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. minutum    |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. timidum    | x     |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| Technomyrmex  |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. albipes    | x x   | x x   | x x   | x x         |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. vitiensis  | x     | x     |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. sp. BP01   |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| Tetramorium   |       |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. antennatm  | x     | x     |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. aspersum   | x x   | x x   | x x   |           |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. bicarinatum|x     | x x   | x x   |           |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. carinatum  | x x   | x x   | x x   |           |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. insolens   |       | x x   | x x   |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. lanuginosum|x     | x     |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. mayri      | x     |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. melanogyna | x     | x     |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. mutatum    | x     |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. pacificum  | x     |        |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| T. salomo     | x x   | x x   |        |             |         |        |         |         |         |             |            |           |                 |             |          |            |         |         |         |          |         |          |            |       |      |                   |            |          |          |       |      |                 |            |          |        |
| Taxon               | Annua | Bicolata | Chloridum | Gnathamandrensis | Malaita | Malaitapina | Matanua | Mairua | New Georgia | New Georgia IS. | Nggela IS. | Nggela Sule | Olo Malau IS. | Olo Malau IS. | Olo Malau IS. | Ootara | Ootara | REEF IS. | REEF IS. | Rendova | Rewa | Russell Is. | Russell Is. | Russell Is. | Santa Cruz | Santa Cruz | Sava | Shortland | Shortland | Sileia | Tikopia | Tikopia | Tukul | Ugi | Vangunu | Vanikoro | Vella Lavella | Vella Lavella | SOLOMON IS. | SOLOMON IS. |
|--------------------|-------|----------|-----------|------------------|---------|-------------|---------|--------|-------------|-----------------|-------------|-------------|---------------|---------------|---------------|---------|---------|-----------|-----------|---------|-------|----------|----------|----------|-----------|-----------|-------|----------|----------|------|--------|--------|------|-----|--------|--------|--------|--------|
| T. simillimum     | x     | x        |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| T. tonganum       | x     | x        |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| T. vombis         |       |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| Tetraponera       |       |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| T. laeviceps      | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| T. dahlii         | x     | x        | x         |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| T. pacifica       | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| Vollenhovia       |       |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. dentata        | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. marginata      | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. elysii         | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. foveaceps      |       |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. loboi          | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. oblonga        | x     | x        |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. pedestris      | x     | x        | x         |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. subtilis       | x     | x        |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. sp. BP01*      | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. sp. BP02*      | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| V. sp. BP03*      | x     |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| Wasmannia         |       |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| W. anoplanctata   |       |          |           |                  |         |             |         |        |             |                 |             |             |               |               |               |         |         |           |           |         |       |          |          |          |           |           |       |          |          |      |       |        |      |
| Total             | 8     | 32       | 11        | 107              | 17      | 142         | 71      | 29     | 18          | 40               | 43          | 28          | 4              | 4              | 35           | 4              | 8              | 10           | 16       | 18       | 32          | 37          | 68          | 12          | 1       | 1         | 21         | 38          | 3          | 2          | 7          | 60          | 217       |