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*Dolichorhinotermes longilabius* (Emerson, 1925), new species for French Guiana, with a preliminary list of the termites in French Guiana

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The rhinotermitid *Dolichorhinotermes longilabius* (Emerson, 1925) is cited and figured for the first time from the French Guiana. A first list of the termites from this country is proposed, showing the amount of work that remain to be done for a correct knowledge of this fauna.

Key words: Insecta, Isoptera, Rhinotermitidae, *Dolichorhinotermes*, first record, first list of isopteran species, French Guiana.

INTRODUCTION

Despite recent progresses (Ensaf et al., 2001a,b,c, 2002a,b,c, 2003a,b,c,d; Ensaf & Nel, 2002; Ensaf & Betsch, 2002), the termite fauna of French Guiana is still rather poorly known. Several taxa present in relatively close countries (Brazil, Venezuela, etc.) are still not recorded from this country (Araujo, 1977; Constantino, 1998). We record for the first time *Dolichorhinotermes longilabius* (Emerson, 1925) from this country. We also give a new list of the termites from French Guiana. All our studied material is deposited in the Entomological Department, MNHN, Paris.

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DESCRIPTION

Family Rhinotermitidae

*Dolichorhinotermes* Emerson, 1949

***Dolichorhinotermes longilabius* (Emerson, 1925)**

(Figs 1-5)

*Material.* Seven soldiers and two workers, deposited in the Laboratoire d'Entomologie, Muséum National d'Histoire Naturelle, collected by R.G. in pieces of dead wood, 5.8.2003.

*Locality.* In the Nature Reserve of Mana (Awala-Yalimapo), northwestern part of French Guiana.

*Description.* Soldier (Figs 1-5). (1) Head yellow, darker in front, broadest in back, broader than longer without mandibles, converging to front in plan, with more than 15 hairs; two symmetrical groups of four ridges separated by median ridge of clypeus (Figs 1-2); (2) labrum yellow brown, darker than head, with a slight elevation at its base, elongated, covering mandibles and almost reaching their tips, with few sensillae, divided in two parts by a ridge but not separated, tip of labrum emarginated, with some hairs (Fig. 2), concave from below (Fig. 3); (3) mandibles large, clearly visible; left mandible (fig. 4) with two large pointed teeth, second tooth smaller than first, with an angle of  $45^\circ$  between the two teeth, and a very small tooth near the base of mandible; right mandible with a large double pointed tooth (Fig. 5), the anterior point smaller than the other one; (4) antennae about same colour as head, with 16 segments; third antennomere longer than fourth and slightly longer

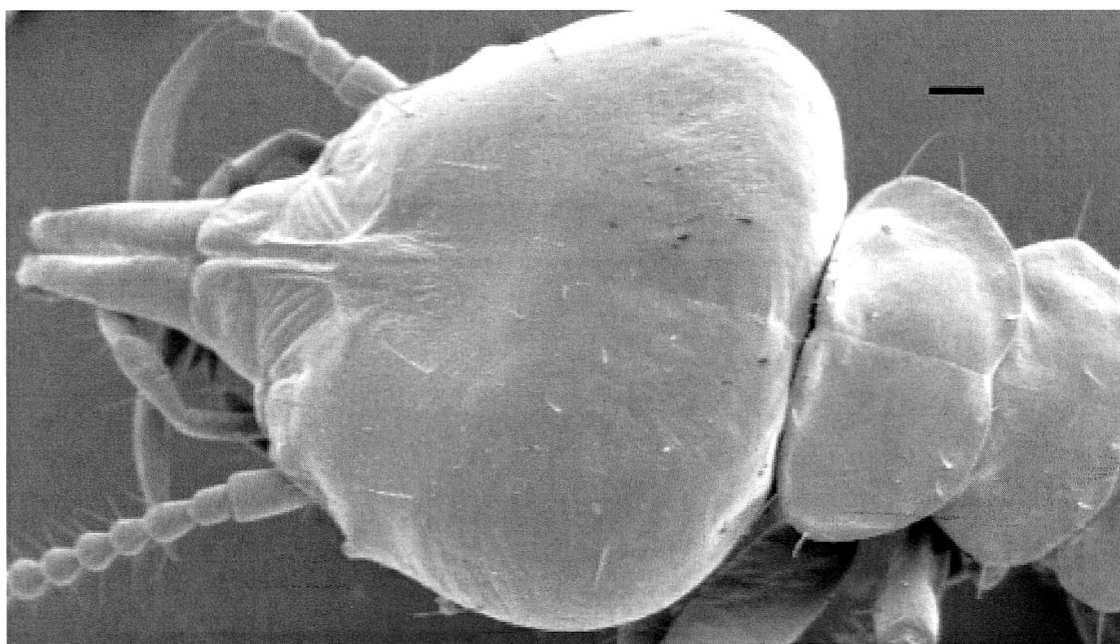


Fig. 1. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of head of major soldier, viewed from above (scale bar represents 100  $\mu$ m).

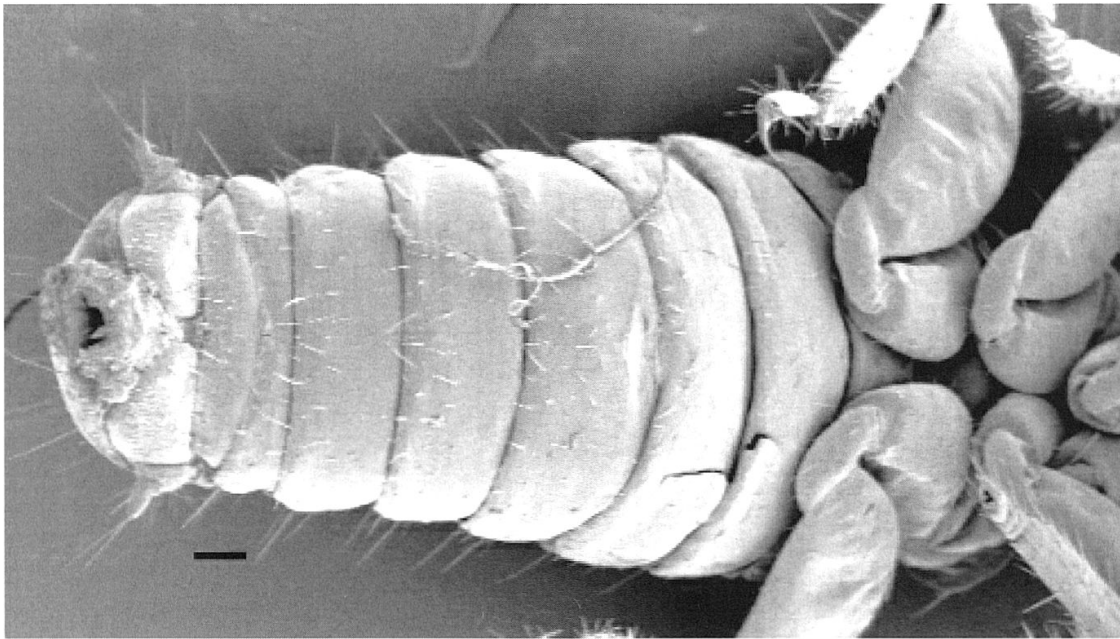


Fig. 2. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of labrum of major soldier, viewed from above (scale bar represents 100  $\mu\text{m}$ ).

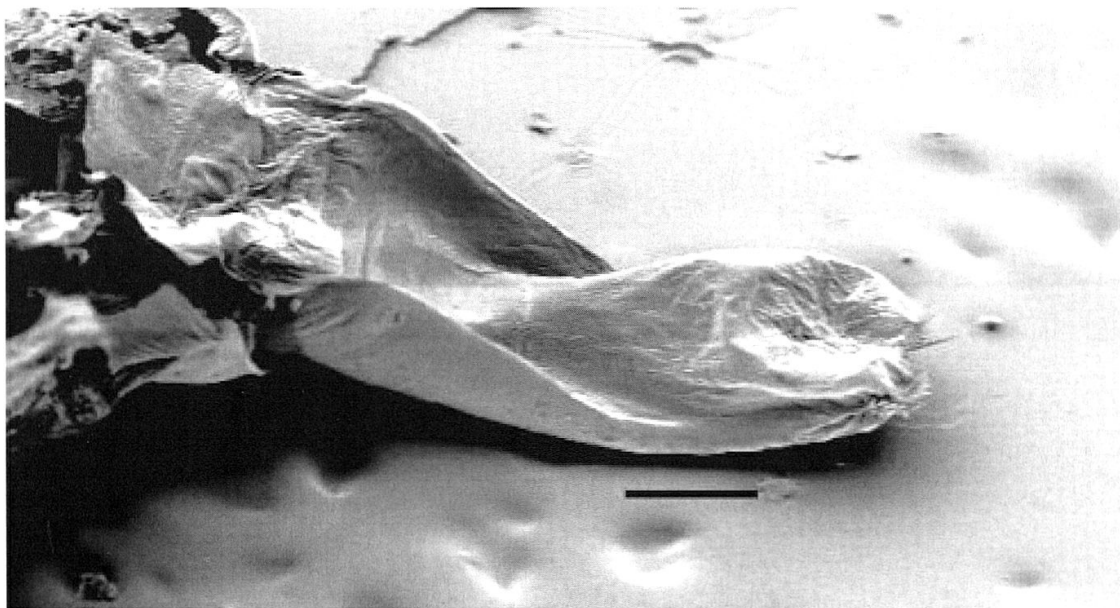


Fig. 3. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of labrum of major soldier, viewed from below (scale bar represents 100  $\mu\text{m}$ ).

than second, first longer and broader than others, sixth to sixteen antennomeres of about same lengths; (5) pronotum (fig. 6) of same colour as head, hexagonal, with a median line and anterior and posterior margins emarginated with few long hairs, and a row of microscopic hairs on anterior margin, anterior margin slightly arised; mesonotum narrower than pronotum, metanotum broader than pronotum; (6) abdominal tergites of about same colour as head, with some hairs, especially on posterior margins; (7) abdominal sternites yellow, with long hairs on posterior margins

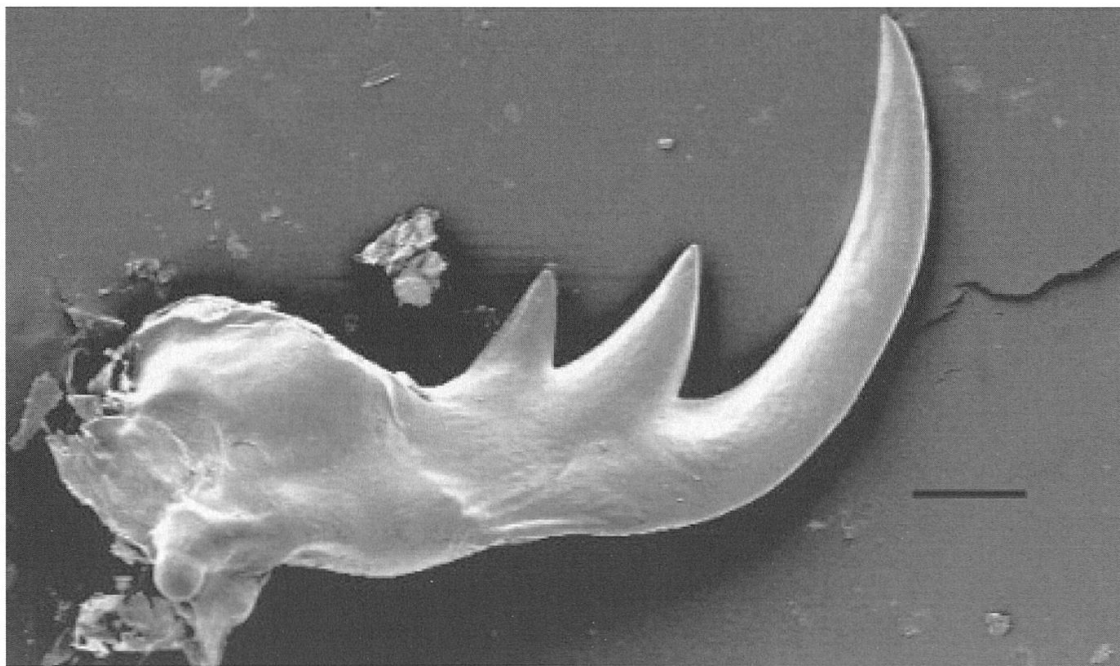


Fig. 4. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of left mandible of major soldier (scale bar represents 100  $\mu$ m).

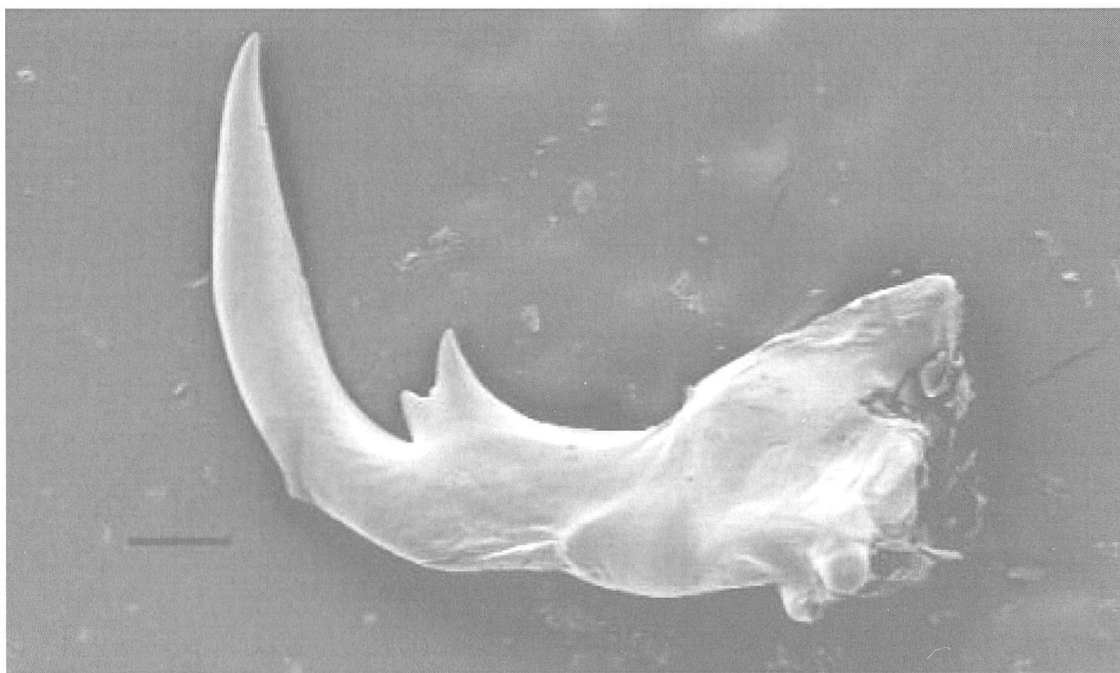


Fig. 5. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of right mandible of major soldier (scale bar represents 100  $\mu$ m).

(Fig. 7); (8) legs yellow, with a row of hairs and bristles; (9) Dimensions. Length of entire soldier, 4.7 mm; length of head with labrum, 1.8 mm; width of head, 1.15 mm; length of labrum, 0.65 mm; length of pronotum, 0.40 mm, width, 0.75 mm; length of antennae, 1.55 mm; length of hind tibia, 0.80 mm.

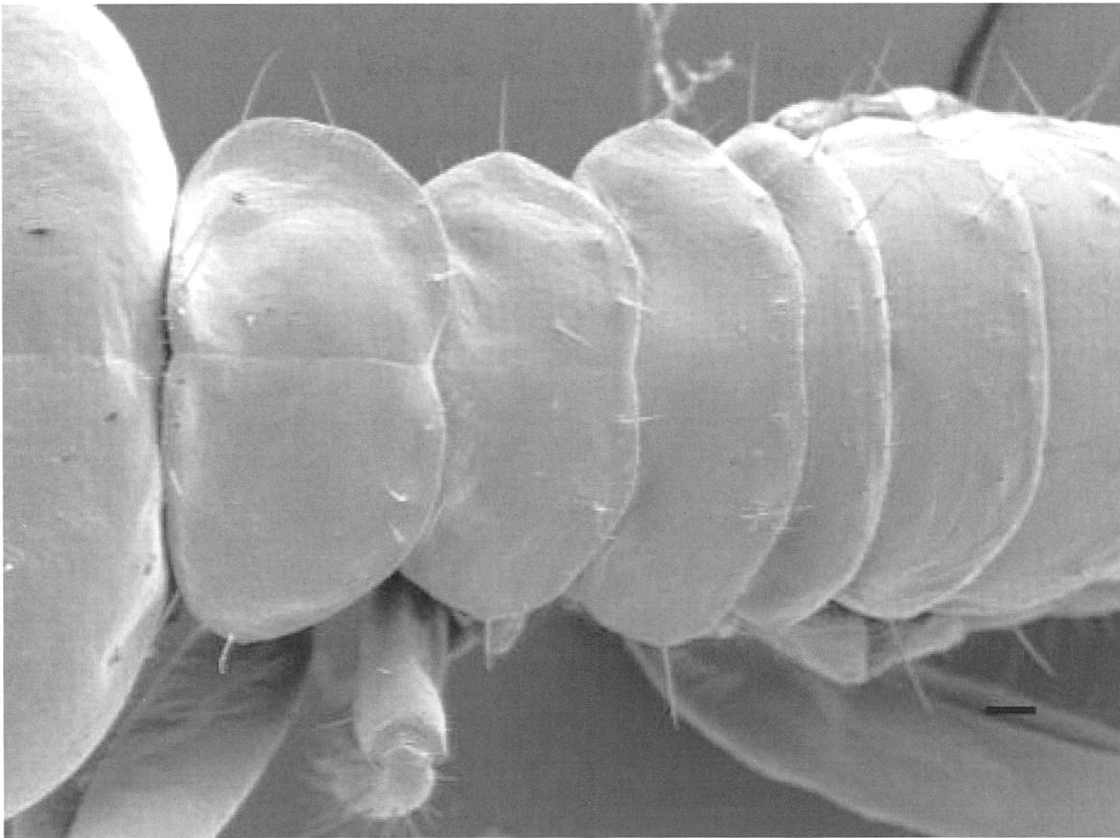


Fig. 6. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of thorax of major soldier, from above (scale bar represents 100  $\mu$ m).

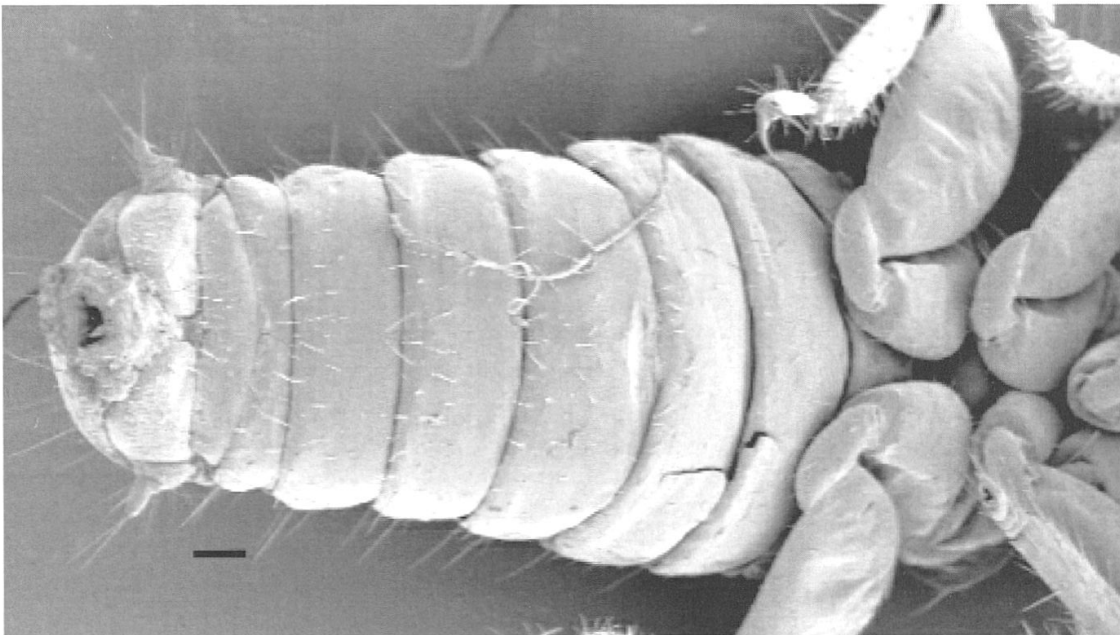


Fig. 7. *Dolichorhinotermes longilabius* (Emerson, 1925), electron scanning photograph of ventral view of abdomen of major soldier (scale bar represents 100  $\mu$ m).

## DISCUSSION

After the key to genera of Neotropical termites of Constantino (1999), this termite falls in the genus *Dolichorhinotermes* Emerson, 1949 because of the following characters: mandibles very large, falcate, with strong marginal teeth, labrum elongate and relatively narrow. The marginal teeth of left mandible of the major soldier of *Dolichorhinotermes tenebrosus* (Emerson, 1925) are well apart, unlike in our material (Fig. 4) (Emerson, 1925: 355). The marginal tooth of right mandible of the major soldier of *Dolichorhinotermes japuraensis* Constantino, 1990 is simple, not divided into two points, unlike our material (Fig. 5) (Constantino, 1990: 5). The labrum of major soldier of *Dolichorhinotermes latilabrum* (Snyder, 1926) is longer and narrower than those of our specimens (Snyder, 1926: Pl. 1, Fig. 6). The first marginal tooth of left mandible and the second point of marginal tooth of right mandible, and the labrum are longer and narrower in *Dolichorhinotermes longidens* (Snyder, 1924) than in our material (Snyder, 1924: Pl. 10, Fig. 1). The shape of mandibles, labrum, head and thorax of our material is very similar to that of *Dolichorhinotermes longilabium* (Emerson, 1925). Our material is only slightly larger than the type major soldiers (Emerson, 1925: 352-353).

We give below in annex 1 the list of the termite species we could examine from the French Guiana, with the first localities where they have been found. We did not discover representatives of the family Kalotermitidae, but four kalotermitid species are recorded (Lefeuvre, 1990; Davies *et al.*, 2003). We also give in annex 2 the comparative list of termites from British Guiana (BG), French Guiana (FG), and Surinam (S), after the available literature and internet sites on the Neotropical Isoptera ([www.utoronto.ca/forest/termite/naspage.htm] and [www.unb.br/ib/zoo/docente/constant/catal]). After this table, the record from Surinam appears very incomplete, compared to those of the French and British Guianas. 57 of the 94 species already known from French Guiana are also present in British Guiana (60% of the fauna of French Guiana and 58% of the fauna of British Guiana). Thus, these two faunas seem to be very different. Numerous work remains to be done to evaluate the termite diversity in this area, especially in Surinam.

## ACKNOWLEDGEMENTS

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## Annex 1. Preliminary list of Isoptera from French Guiana, after our personal observations

### RHINOTERMITIDAE

#### **Coptotermitinae**

*Coptotermes marabitanas* (Hagen, 1858), St Laurent du Maroni, north western part of French Guiana.

*Coptotermes* sp. (subfossil), Bélizon area, Régina, north eastern part of French Guiana.

#### **Heterotermitinae**

*Heterotermes tenuis* (Hagen, 1858), 'Piste de St Elie', Sinnamary, northern part of French Guiana.

#### **Rhinotermitinae**

*Dolichorhinotermes neli* Ensaf and Btsch, 2001, Cacao region, Roura, north eastern part of French Guiana.

*Dolichorhinotermes longilabius* (Emerson, 1925), Natural Reserve of Amana, Awala-Yalimapo, north western part of French Guiana.

*Rhinotermes marginalis* (Linnaeus, 1758), Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.

*Rhinotermes nasutus* (Perty, 1933), Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.

### TERMITIDAE

#### **Amitermitinae**

*Cylindrotermes parvignathus* Emerson, 1949, 'Piste de St Elie', Sinnamary, northern part of French Guiana.

#### **Cornitermitinae**

*Cornitermes pugnax* Emerson, 1925, Régina region, north eastern part of French Guiana.

*Labiotermes labralis* (Holmgren, 1906), Amana, Awala-Yalimapo, north western part of French Guiana.

#### **Nasutitermitinae**

*Armitermes minutus* Emerson, 1925, Nourragues inselberg, Régina, north central part of French Guiana.

*Armitermes teevani* Emerson, 1925, Amana, Awala-Yalimapo, north western part of French Guiana.

*Embiratermes neotenicus* (Holmgren, 1906), Nature Reserve of 'l'île du Grand Connétable', north eastern part of French Guiana.

*Constrictotermes cacaoensis* (Ensaf, and all, 2002), Cacao region, Roura, north eastern part of French Guiana.

*Constrictotermes cavifrons* (Holmgren, 1910), Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.

*Diversitermes diversimiles* (Silvestri, 1901), Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.

*Nasutitermes acajutlae* (Holmgren, 1910), Amana, Awala-Yalimapo, north western part of French Guiana.

*Nasutitermes banksi* Emerson, 1925, Amana, Awala-Yalimapo, north western part of French Guiana.

*Nasutitermes comstockae* Emerson, 1925, Amana, Awala-Yalimapo, north western part of French Guiana.

*Nasutitermes cornigera* (Motschulsky, 1855), Nourragues inselberg, Régina, north central part of French Guiana.

*Nasutitermes costalis* (Holmgren, 1910), Antécume Pata, Maroni river, Maripasoula, northern part of French Guiana.

*Nasutitermes ephratae* (Holmgren, 1910), Mont-Chauve inselberg, Régina, north central part of French Guiana, also between Kourou and Sinnamary.

*Nasutitermes guayanae* (Holmgren, 1910), road of Paul Isnard, St Laurent du Maroni, north western part of French Guiana.

*Nasutitermes guayanae* ['form' *columbicus* (Holmgren, 1910)], Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.

- Nasutitermes octopilis* Banks, 1918, St Laurent du Maroni, north western part of French Guiana.  
*Nasutitermes similis* Emerson 1935, Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.  
*Nasutitermes surinamensis* (Holmgren, 1910), Amana, Awala-Yalimapo, north western part of French Guiana.  
*Rounditermes dechambrei*, Ensaf et al., 2002, along the road RN1 between Kourou and Sinnamary, northern French Guiana.  
*Velocitermes beebei* (Emerson, 1925), Amana, Awala-Yalimapo, north western part of French Guiana.  
*Velocitermes betchi*, Ensaf and Nel, 2002, Cacao region, Roura, eastern part of French Guiana.

**Termitinae**

- Cornicapritermes mucronatus* Emerson, 1950, Petit-Saut (St Eugène), Sinnamary, northern part of French Guiana.  
*Microcerotermes arboreus* (Emerson, 1925), Amana, Awala-Yalimapo, north western part of French Guiana.  
*Termes fatalis* Linnaeus 1758, Nourragues inselberg, Régina, north central part of French Guiana.

**Annex 2. Comparison of the termite lists of Surinam (S), French Guiana (FG), and British Guiana (BG).**

	BG	FG	S
<b>Kalotermitinae</b>			
<i>Calcaritermes nigriceps</i> (Emerson, 1925)	X		
<i>Calcaritermes temnocephalus</i> (Silvestri, 1901)		X	
<i>Cryptotermes brevis</i> (Walker, 1853)	X	X	
<i>Cryptotermes darwini</i> (Light, 1935)	X		
<i>Cryptotermes havilandi</i> (Sjoestedt, 1900)	X	X	X
<i>Cryptotermes verruculosus</i> (Emerson, 1925)	X		
<i>Glyptotermes guianensis</i> (Emerson, 1925)	X	X	
<i>Glyptotermes hospitalis</i> (Emerson, 1925)	X		
<i>Glyptotermes liberatus</i> (Snyder, 1929)	X		
<i>Glyptotermes nigriceps</i> (Emerson, 1925)	X		
<i>Glyptotermes pellucidus</i> (Emerson, 1925)	X		
<i>Glyptotermes perparvus</i> (Emerson, 1925)	X		
<i>Neotermes clearei</i> (Emerson, 1925)	X		
<i>Neotermes holmgreni</i> Banks, 1918	X		
<i>Neotermes kartaboensis</i> (Emerson, 1925)	X		
<i>Rugitermes bicolor</i> (Emerson, 1925)	X		
<i>Rugitermes flavicinctus</i> (Emerson, 1925)	X		
<i>Rugitermes magninotus</i> (Emerson, 1925)	X		
<b>Rhinotermitidae</b>			
<i>Acorhinotermes subfusciceps</i> (Emerson, 1925)	X	X	
<i>Coptotermes marabitanas</i> (Hagen, 1858)	X	X	X
<i>Coptotermes testaceus</i> (Linnaeus, 1758)	X	X	
<i>Dolichorhinotermes latilabrum</i> (Snyder, 1926)		X	
<i>Dolichorhinotermes longilabius</i> (Emerson, 1925)	X	X	
<i>Dolichorhinotermes neli</i> Ensaf & Betsch, 2001		X	
<i>Dolichorhinotermes tenebrosus</i> (Emerson, 1925)	X		
<i>Heterotermes crinitus</i> (Emerson, 1925)	X		
<i>Heterotermes tenuis</i> (Hagen, 1858)	X	X	
<i>Rhinotermes marginalis</i> (Linnaeus, 1758)	X	X	X
<i>Rhinotermes hispidus</i> Emerson, 1925	X	X	
<i>Rhinotermes nasutus</i> (Perty, 1830)	X	X	X
<b>Termitidae</b>			
<i>Agnathotermes glaber</i> (Snyder, 1926)		X	
<i>Amitermes excellens</i> (Silvestri, 1923)	X		
<i>Angularitermes nasutissimus</i> (Emerson, 1925)	X	X	
<i>Anoplotermes banksi</i> Emerson, 1925	X	X	
<i>Anoplotermes brevipilus</i> Emerson, 1925	X	X	
<i>Anoplotermes meridianus</i> Emerson, 1925	X		
<i>Anoplotermes nigripunctatus</i> Emerson, 1925	X	X	
<i>Anoplotermes parvus</i> Snyder, 1923		X	
<i>Anoplotermes subterraneus</i> Emerson, 1925	X		
<i>Anoplotermes subterraneus</i> Emerson, 1925	X		
<i>Araujotermes parvulus</i> (Silvestri, 1923)		X	
<i>Armitermes grandidens</i> Emerson, 1925	X		

	BG	FG	S
<i>Armitermes holmgreni</i> Snyder, 1926	X	X	
<i>Armitermes minutus</i> Emerson, 1925	X	X	
<i>Armitermes teevani</i> Emerson, 1925	X	X	
<i>Atlantitermes oculatissimus</i> (Emerson, 1925)	X	X	
<i>Atlantitermes guarinim</i> Fontes, 1979		X	
<i>Atalantitermes kirbyi</i> (Snyder, 1926)		X	
<i>Atlantitermes osborni</i> (Emerson, 1925)	X	X	
<i>Atlantitermes raripilus</i> (Emerson, 1925)	X		
<i>Atlantitermes snyderi</i> (Emerson, 1925)	X	X	
<i>Caetetermes taquarussu</i> Fontes, 1981		X	
<i>Cavitermes tuberosus</i> (Emerson, 1925)	X	X	
<i>Coatitermes clevelandi</i> Snyder, 1926		X	
<i>Coatitermes kartaboensis</i> (Emerson, 1925)	X	X	
<i>Coatitermes mazaruniensis</i> (Emerson, 1925)	X		
<i>Coatitermes mazaruniensis</i> (Emerson, 1925)	X		
<i>Coendutermes tucum</i> Fontes, 1985			X
<i>Constrictotermes cacaoensis</i> (Ensaf, 2002)		X	
<i>Constrictotermes cavifrons</i> (Holmgren, 1910)	X	X	X
<i>Convexitermes junceus</i> (Emerson in Snyder, 1949)	X		
<i>Convexitermes manni</i> (Emerson, 1925)	X	X	
<i>Cornicapritermes mucronatus</i> Emerson, 1950	X	X	
<i>Cornitermes cumulans</i> (Kollar in Pohl, 1832)		X	
<i>Cornitermes pugnax</i> Emerson, 1925	X	X	X
<i>Cornitermes weberi</i> Emerson, 1952	X	X	X
<i>Crepititermes verruculosus</i> (Emerson, 1925)		X	
<i>Curvitermes angulariceps</i> Mathews, 1977		X	
<i>Cylindrotermes parvignathus</i> Emerson in Snyder, 1949	X	X	
<i>Cyranotermes caete</i> Cancellato, 1987		X	
<i>Cyrelliotermes cashassa</i> Fontes, 1985		X	X
<i>Cyrelliotermes jaci</i> Fontes, 1985			X
<i>Dentispicotermes brevicarinatus</i> (Emerson, 1950)	X	X	
<i>Dihoplotermes inusitatus</i> Araujo, 1961		X	
<i>Diversitermes diversimiles</i> (Silvestri, 1901)		X	
<i>Embiratermes brevinasus</i> (Emerson & Banks, 1957)	X		
<i>Embiratermes neotenicus</i> (Holmgren, 1906)	X	X	X
<i>Embiratermes parvirostris</i> Constantino, 1992		X	
<i>Embiratermes snyderi</i> (Emerson & Banks, 1957)	X		
<i>Embiratermes transandinus</i> (Araujo, 1977)	X		
<i>Inquilinitermes inquilinus</i> (Emerson, 1925)	X	X	
<i>Labiotermes labralis</i> (Holmgren, 1906)	X	X	X
<i>Labiotermes longilabius</i> (Silvestri, 1901)		X	
<i>Labiotermes pelliceus</i> Emerson & Banks, 1965	X		
<i>Microcerotermes arboreus</i> Emerson, 1925	X	X	
<i>Microcerotermes exiguus</i> (Hagen, 1858)		X	
<i>Microcerotermes indistinctus</i> Mathews, 1977		X	
<i>Nasutitermes acajutlae</i> (Holmgren, 1910)	X	X	
<i>Nasutitermes acangussu</i> Bandeira & Fontes, 1979		X	
<i>Nasutitermes banksi</i> Emerson, 1925	X	X	X

	BG	FG	S
<i>Nasutitermes brevipilus</i> Emerson, 1925	X	X	
<i>Nasutitermes callimorphus</i> Mathews, 1977		X	
<i>Nasutitermes comstockae</i> Emerson, 1925	X	X	
<i>Nasutitermes cornigera</i> (Motschulsky, 1855)	X	X	
<i>Nasutitermes costalis</i> (Holmgren, 1910)	X	X	
<i>Nasutitermes coxipoensis</i> (Holmgren, 1910)		X	
<i>Nasutitermes ephratae</i> (Holmgren, 1910)	X	X	
<i>Nasutitermes gaigei</i> Emerson, 1925	X	X	
<i>Nasutitermes guayanae</i> (Holmgren, 1910)	X	X	X
<i>Nasutitermes guayanae</i> ['form' <i>columbicus</i> (Holmgren, 1910)]	X	X	
<i>Nasutitermes intermedius</i> Banks, 1919	X	X	
<i>Nasutitermes montanae</i> (Holmgren, 1910)	X	X	X
<i>Nasutitermes nigriceps</i> (Haldeman, 1853)		X	
<i>Nasutitermes octopilis</i> Banks, 1918	X	X	
<i>Nasutitermes pilosus</i> Snyder, 1926		X	
<i>Nasutitermes similis</i> (Emerson, 1935)	X	X	
<i>Nasutitermes surinamensis</i> (Holmgren, 1910)	X	X	X
<i>Nasutitermes wheeleri</i> Emerson, 1925	X		
<i>Neocapritermes angusticeps</i> (Emerson, 1925)	X	X	X
<i>Neocapritermes araguaia</i> Krishna & Araujo, 1968		X	
<i>Neocapritermes bodkini</i> (Silvestri, 1923)	X		
<i>Neocapritermes guyana</i> Krishna & Araujo, 1968	X		
<i>Neocapritermes longinotus</i> (Snyder, 1926)		X	
<i>Neocapritermes opacus</i> (Hagen, 1858)		X	
<i>Neocapritermes taracua</i> Krishna & Araujo, 1968		X	
<i>Orthognathotermes aduncus</i> Emerson in Snyder, 1949	X		
<i>Planicapritermes planiceps</i> (Emerson, 1925)	X	X	
<i>Rotunditermes bragantinus</i> (Roonwal-Rathore)		X	
<i>Rounditermes dechambrei</i> Ensaf & al., 2002		X	
<i>Ruptitermes arboreus</i> (Emerson, 1925)	X		
<i>Ruptitermes silvestrii</i> (Emerson, 1925)	X		
<i>Spinitermes trispinosus</i> (Hagen & Bates, 1858)		X	
<i>Subulitermes baileyi</i> (Emerson, 1925)	X	X	
<i>Subulitermes constricticeps</i> Constantino, 1991		X	
<i>Syntermes aculeosus</i> Emerson, 1945	X		
<i>Syntermes brevimalatus</i> Emerson, 1945	X		
<i>Syntermes calvus</i> Emerson, 1945	X	X	X
<i>Syntermes grandis</i> (Rambur, 1842)	X	X	X
<i>Syntermes longiceps</i> Constantino, 1995		X	
<i>Syntermes parallelus</i> Silvestri, 1923	X		
<i>Syntermes spinosus</i> (Latreille, 1804)	X	X	
<i>Syntermes territus</i> Emerson, 1925	X		
<i>Termes bolivianus</i> Snyder, 1926			
<i>Termes fatalis</i> Linnaeus, 1758	X	X	X
<i>Termes hispaniolae</i> (Banks, 1918)	X		
<i>Termes medioculatus</i> (Emerson in Snyder, 1949)	X		
<i>Velocitermes beebei</i> (Emerson, 1925)	X	X	
<i>Velocitermes betschi</i> Ensaf & Nel, 2002		X	