

Caledonian species are not closely related, however, and the evidence seems to suggest that they were derived independently from an Australian source fauna.

#### KEY TO SPECIES OF PHYRACACES OF NEW CALEDONIA

##### Worker Caste

Large species (HW 1.16–1.25 mm) with unusually long scapes (scape index greater than 90); greatest width of petiole well forward of its transverse midline ..... 22. *dumbletoni*  
 Smaller species (HW 0.88–1.01 mm) with distinctly shorter scapes (scape index less than 70); greatest width of petiole at about its transverse midline..... 21. *cohici*

#### 21. *Phyracaces cohici* Wilson Fig. 3, B.

*Phyracaces cohici* Wilson, 1957, *Breviora* 74: 1 fig. (worker, male; type locality: Ciu, New Caledonia); 1958, *Insectes Sociaux* 5: 131 (behavior).

DISTRIBUTION: New Caledonia.

#### 22. *Phyracaces dumbletoni* Wilson

*Phyracaces dumbletoni* Wilson, 1957, *Breviora* 74: 5 fig. (worker, ergatogyne; type locality: Chapeau Gendarme, New Caledonia); 1958, *Insectes Sociaux* 5: 133–134 (behavior).

DISTRIBUTION: New Caledonia.

#### Genus *Sphinctomyrmex* Mayr

#### 23. *Sphinctomyrmex caledonicus* Wilson

*Sphinctomyrmex caledonicus* Wilson, 1957, *Breviora* 74: 8 (worker, ergatogyne; type locality: Ciu, New Caledonia); 1958, *Insectes Sociaux* 5: 136 (behavior).

DISTRIBUTION: New Caledonia.

#### 24. *Sphinctomyrmex cribratus* Emery

*Sphinctomyrmex (Eusphinctus) cribratus* Emery, 1897, *Termész. Füz.* 20: 594 [worker; type locality: Lemien Forest, near Berlinhafen (Aitape), NE New Guinea].

DISTRIBUTION: New Guinea.

This species is evidently closely related to *steinheili* Forel of eastern Australia and *caledonicus* Wilson of New Caledonia. Whether it is conspecific with either of these cognate forms cannot be determined without a direct comparison of authentic samples, and its present treatment here as a distinct entity is no more than an "educated guess."

#### Genus *Lioponera* Mayr

#### 25. *Lioponera versicolor* Donisthorpe

*Lioponera versicolor* Donisthorpe, 1948, *Ann. Mag. Nat. Hist.* ser. 11, 14: 589 (male; type locality: Maffin Bay, Neth. New Guinea).

DISTRIBUTION: New Guinea.