

2. Mesosomal profile with promesonotum slightly more convex and raised a little higher above the propodeal dorsum than in the Isabel/Wagina or Vella Lavella forms.

3. Propodeal declivity divided into upper and lower portions by a transverse carina, as in other morphs. The dorsal section, however, is convex, with its surface more or less continuous with the convexity of the propodeal dorsum. In the other morphs this section intrudes into the propodeal dorsum as a depressed triangular "valley". In this feature Guadalcanal *E. isabellae* specimens resemble *E. greensladei*.

4. Sculpturation less intense than in either previously described morph. Head essentially smooth, with faint traces of punctate-rugosity. Dorsum and sides of mesosoma, petiole and postpetiole with sculpturing somewhat reduced, but probably derived from a condition like that in the Vella Lavella form. Gastral sculpturing intermediate between Wagina and Vella Lavella specimens.

The Isabel/Wagina, Vella Lavella and Guadalcanal morphs thus appear approximately to represent steps in a cline running from north-west to south-east in the Solomons, with the Vella Lavella form more or less intermediate between the other two in most features.

It is possible that these forms, along with *E. greensladei*, represent separate, closely related species in a group derived from stock close to *E. procera*. Guadalcanal *E. isabellae* specimens are generally quite similar to *E. greensladei*, though the two have very different mandibular structure, and *E. greensladei* has heavier mesosomal sculpture, more like Vella Lavella specimens of *E. isabellae*.

Eurhopalothrix procera (Emery)

New records.—PAPUA NEW GUINEA: MANUS ISLAND: Lorengau, 27.ii.1973, PMR. SEPIK PROVINCE: Pes, near Aitape, berlesate, rain forest, ca 50 m, 8-9.vii.1972, RWT; Yawasora, near Wewak, berlesate, rain forest, < 50 m, 4-6.vii.1972, RWT. MOROBE PROVINCE: near Lae, berlesate, rain forest, ca 50 m, 11.vi.1972, RWT. CENTRAL PROVINCE: Kokoda, 6.iv.1972, PMR; near Kokoda, rain forest, ca 500 m, 1.vi.1972, RWT; 5 mi. S of Siahio, near Popondetta, nest in rotting log, rain forest, ca 400 ft, 16.i.1971, BBL; Popondetta-Kokoda Rd, near summit Oivi Ridge, in rotten stump, rain forest, ca 1300 ft, 16.i.1971, BBL; Popondetta, 20.ix.1972, PMR; 20 mi. N of Popondetta, Bisi Cocoa plantation, nest in rotting wood on ground, ca 400 ft, 15.i.1971, BBL; near Dobodura, on Samboga River, nest in large rotting log, rain forest, ca 100 ft, 14.i.1971, BBL. SOLOMON ISLANDS: RENDOVA: 6.v.1966, PJMG (acc. 22936) (ANIC). SANTA ISABEL: Tatamba, berlesates, *Casuarina* or mixed litter, 27, 28.ix.1965. PNL-Brit. Roy. Soc. Expedition [ANIC, BM(NH)]. MALAITA: Dala, flying male, 11.ii.1965, PJMG (acc. 16654). GUADALCANAL: Mt Austen, 5.x.1965, PJMG (acc. 19476); Mt Gallego, berlesate, moss forest, ca 3000 ft, 1966, PNL-Brit. Roy. Soc. Expedition. AUSTRALIA: QUEENSLAND: Iron Range, ex rotting wood on ground, rain forest, 20-25.vii.1978, RWT; Cooper Creek, 16°11'S, 145°26'E, ground stray, rain forest, < 20 m, 22.vi.1971, RWT and JEF; Thornton Range, 16°15'S, 145°26'E, ex rotting log, rain forest, ca 150-180 m, 23.vi.1971, RWT and JEF. (All ANIC.)

Known distribution, variation

Widespread in rain forest and marginal habitats; East Indies, Philippines, Melanesia, Polynesia east to the Samoan Islands, and Cape York Peninsula south to the Daintree River (ca 16°15'S). The Australian records are all from low elevations (<200 m), but *E. procera* has been taken at 500 m in Papua New Guinea and at 900 m on Guadalcanal.

The material listed above confirms the general centrifugal pattern of geographical variation described by Brown and Kempf (1960, p. 228, fig. 56), except that Australian specimens have fewer erect hairs on first gastral tergite than expected. Two workers from Iron Range each have a single hair near the posterior border of the sclerite, while two others, and 18 from the Cooper Creek and Thornton Range series, completely lack such hairs.

Eurhopalothrix szentivanyi Taylor (Figs 4-6)

New records.—PAPUA NEW GUINEA: SEPIK PROVINCE: near Vanimo, ex rotting log, rain forest, ca 50 m, 10-11.vii.1972, RWT. MOROBE PROVINCE: Wau Gorge, worker foraging on log, midmorning, rain forest, ca 3000 ft, 7.i.1971, BBL. CENTRAL PROVINCE: Kokoda, nest in large log, edge of rain forest in dense rubber plantation, 1300 ft, 17.i.1971, BBL; 25.v.1972, PMR; near Kokoda, berlesate, rain forest, ca 500 m, 1.vi.1972, RWT; Kokoda Rd, 5 mi. S of Siahio, dense rain forest, ca 400 ft, 16.i.1971, BBL; Popondetta, 20.vii.1973, PMR. (All ANIC.)