

## New provincial records for twelve ant species (Hymenoptera, Formicidae) from Finland

Michael I. Saaristo

Zoological Museum, University of Turku, SF-20500 Turku, Finland

Prior to the work of Collingwood (1979), no coherent list of ants on a provincial level has been presented from Finland. Also, since Collingwood, only a few new records have been published (Rosengren 1981, Vepsäläinen & Pisarski 1982, Vepsäläinen et al. 1984, and Saaristo 1986).

Study of the vast undetermined, in-liquid ant collection of the Zoological Museum at the Turku University has, however, yielded several new provincial records. Some older unpublished records derived from the dry collection of the museum are also included. Furthermore, extensive ant collecting done by the author during the last four years has resulted in numerous new records on a provincial level. A map of the provinces is found inside the back cover of every odd-numbered issue of the journal.

Collectors are indicated in parentheses according to the following abbreviations: OE = O. Enckell, JH = J. Högmander, TI = T. Ilvessalo, SK = S. Koponen, UL = U. Laine, PL = P. T. Lehtinen, RM = R. Mannila, HM = H. Myrsky, VM = V.-M. Mukkala, IO = I. Oksala, VR = V. Rinne, MS = M. Saaristo, OS = O. Sorsakoski.

*Myrmica rugulosa* Nylander. — *Kb*: Joensuu, centre (694:64), 17.7.1987, nesting abundantly in the park near the riverbank (MS) and Liperi, Myllykylä (694:63), 17.7.1987, a few nests in sandbanks adjacent to the railway (MS).

*M. sabuleti* Meinert. — *Al*: Kumlinge, Enklinge (670:15 and 671:15) in 1971 and 1972 from a small bog 41♂♂ and in 1972 from a *Corylus*-grove one ♀; all by pit-fall traps (PL, RM & IO) and several nests during 27.7.-31.7.1988 from the following places: Lumparland, Krogstad (668:12), Sund, Bomarsund (669:12) and Stenrösbergen Stormyran (670:12), Finström, Bergö and Bamböle (670:10), and Kökar, Söderby (666:16) (MS). — *St*: Säkyllä, Säkyllänharju (677:26), 7.8.1988 (VR) and Köyliö, Säkyllänharju (678:25), 11.8.1988 (MS).

*M. scabrinodis* Nylander. — *LkE*: Sodankylä, Aartola in 1983, 31♀♀ and 51♂♂ by pit-fall traps (SK).

*M. schencki* Emery. — *Ka*: Virolahti, Hurppu (671:54), 14.8.1985 (MS) and Ylämaa, Sammalinen (673:55), 31.5.1988 (MS). — *St*: Köyliö, Säkyllänharju (678:26), 11.8.1988 (MS). — *Sb*: Joroinen, one ♀ (no date) (OE). — *Kb*: Liperi, Myllykylä (694:63), 20.8.1986 (MS).

*M. sulcinodis* Nylander. — *St*: Ikaalinen, Kovero (687:31), 23.4.1983, 4♂♂ (PL), Vammala, Huhtala (680:28), 4.7.1986 (MS), and Köyliö, Säkyllänharju (678:25), 11.8.1988 (MS).

*Leptothorax muscorum* (Nylander). — *Kb*: Liperi, Ylämylly (694:63), 17.7.1987 (MS) and Nurmes, Puukari (707:58), 15.7.1987 (MS). — *Oa*: Lappfjärd, Algars (691:21), 12.7.1966, one ♀ (PL) and Ilmajoki, 18.5.1985, one ♀ (VM). — *Om*: Vimpeli, Vatpakka (700:34), 2.6.1988 (MS). — *ObS*: Hailuoto, Marjaniemi (721:38), 12.8.1985 (MS).

*Harpagoxenus sublaevis* (Nylander). — *Al*: Kumlinge, Enklinge (671:15) in 1971, one ♀ by pit-fall trap (PL) and several colonies with *Leptothorax acervorum* and/or *L. muscorum* slaves during 28.-30.7.1987 from the following places: Eckerö Torp Skeppsvik and Degersand (669:08), Finström, Bergö and Bamböle (670:10) and Bjärnström (669:10), Lumparland, Krogstad (668:12), and Sund, °E of Bomarsund (669:12) (MS). — *Ka*: Ylämaa, 4 km NE of the church (674:55), 13.8.1985, a nest with *L. acervorum* and *L. muscorum* slaves (MS) — *St*: Vammala, Lousaja (681:28), 27.7.1985 and 4.7.1986, two nests with *L. acervorum* slaves (MS). — *Sa*: Rautjärvi, Laikko (680:62), 13.8.1985, two nests with *L. acervorum* and *L. muscorum* slaves (MS). — *Kb*: Liperi, Ylämylly (695:63), 17.7.1987, a nest with *L. acervorum* slaves (MS). — *Om*: Soini, Laasala (698:34), Lestijärvi, Järventausta (705:38), Reisjärvi, Katajaneva (705:39), Lohtaja, Vattajanniemi (710:32), Himanka, Rautila (711:33) and Torvenkylä (711:34), Kalajoki, Siipa (712:34), during 1.-3.6.1988 several nests with *L. acervorum* slaves (MS).

*Formicoxenus nitidulus* (Nylander). — *Kb*: Ilomantsi, Lyijyvaara, 14.6.1967, one ♀ and Pallosenvaara (701:70), 31.5.1983, one ♀ and Lieksa, Patvinsuo Raununvaara (701:68), 31.5.1984, 4♂♂ and Koli Ipattivaara (700:64), 1.6.1984, 35♂♂ (PL).

*Lasius mixtus* (Nylander). — *Al*: Eckerö, Torp Skeppsvik (669:08): a small bog, in 1967, one ♀ by pit-fall trap (MS)

and Kumlinge, Enklinge (671:15), in 1972, one ♀ by pit-fall trap (PL, RM & IO).

*Formica cinerea* Mayr. — *St*: Säkylä, Säkyläharju (677:26), 7.8.1988 (VR) and Köyliö, Säkyläharju (678:25), 11.8.1988 (MS), numerous nests in a sandy terrain.

*Formica fusca* Linnaeus. — *Al*: Eckerö, Torp Skeppsvik (669:08): a small bog, in 1967, 5♂♂ by pit-fall traps (M. Saaristo leg.), Kumlinge, Enklinge (671:15): edge of a meadow, in 1972, one ♀ and ♂ by pit-fall traps (PL, RM & IO), and Kökar (666:16), 25.8.1975, one ♂ (UL) and several nests during 28.–31.7.1987 from the following places: Eckerö, Torp Skeppsvik and Degersand (669:08), Hummelvik (670:08), and Överby (670:09), Finström, Bergö and Bamböle (670:10) and Tjudö (671:11), Lemland, Vessingboda (667:11), Lumparland, Krogstad (668:12), Vårdö, church village (669:13) and Sandö (670:13), Sund, Tosarby (669:11), Bomarsund (669:12), and Stenrösbergen (670:12), Kökar, ferry harbour (666:15), and Vålö (666:16) (MS).

*F. pressilabris* Nylander. — *Ab*: Korppoo, Jurmo Joutsenlampi (665:19) in 1969, one ♂ by pit-fall trap (HM & JH) and Uusikaupunki, Lyökki Ruotsinluoto (676:18), in 1973 and 1974, over 500♂♂ by pit-fall traps (TI). — *Om*: Mustasaari, Raippaluoto Norra Valgrund (702:21): several nests on a bog, 31.5.1988 (MS).

*F. pratensis* Retzius. — *Al*: Mariehamn (668:10): a nest in a *Sedum rupestre* stand, 17.7.1983, some ♂♂ (PL) and Kumlinge, Enklinge (671:15), in 1971 and 1972, some ♂♂ by pit-fall traps (PL, RM & IO), Finström, Bergö (670:10), 28.7.1987 (MS) and Vårdö, Sandö (670:13), 29.7.1987 (MS). — *Ka*: Kotka, Lehmäsaari (670:49), 6.7.1988 (VR). — *ObN*: Keminmaa, Kalkkimaa (671:38), 12.8.1986 (MS).

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