

Five alysiine species new to Finland (Hymenoptera: Braconidae; Alysiinae)

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The genera *Adeluroloa* Strand, 1928 by species *A. florimela* (Haliday, 1838), *Anisocyrtia* Foerster, 1862 by species *A. alpinicola* van Achterberg, 1986 and *A. perditia* (Haliday, 1838), *Asyntactus* by species *A. rhogaleus* Marshall, 1898 and *Symphanes* Foerster, 1862 by species *S. striolata* (Thomson, 1895) (Hymenoptera, Braconidae, Alysiinae) are recorded for the first time from Finland. Records and distribution in Finland are presented.

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1. Introduction

Dr. Max Fischer (Vienna) determined a considerable amount of material of Opiinae for our survey of the Finnish species (Fischer & Koponen 1999). He also determined some Alysiinae for me and thus created reference material. This has inspired me to begin to study this group. The first genus *Trachyusa* Ruthe, 1854 has already been treated (Koponen 1999). This article deals with four genera of Alysiini from Finland: *Adeluroloa* Strand, 1928 with one species, *Anisocyrtia* Foerster, 1862 with two species, *Asyntactus* Marshall, 1898 with one species, and *Symphanes* Foerster, 1862 with one species.

2. Material

Most of the records here are based on specimens deposited in the collections of the Department of Applied Zoology, University of Helsinki (DAZH, curator M. Koponen). The collecting method has been mainly sweeping (and using aspirator for emptying the net). Some specimens of the species handled here were found in the Zoo-

logical Museum of the Finnish Museum of Natural History, University of Helsinki (MZH, curator A. Albrecht), and in one case, the Kainuu Regional Environment Centre, Research Centre of Friendship Park, Kuhmo (KUH, G. Várkonyi). Some specimens were seen in private collection of V. Vikberg (VVPC).

3. Species

Adeluroloa florimela (Haliday, 1838)

Alysia (*Alysia*) *florimela* Haliday, 1838: 267.

Adelura florimela: Foerster 1862: 267; Krogerus 1927: 47.

Dapsilarthra florimela: Königsmann 1959: 589–591 (redescription, host); Fischer 1971: 81; Shenefelt 1974: 988.

Dapsilarthra (*Adeluroloa*) *florimela*: Fulmek 1962: 63 (host).

Adeluroloa florimela: van Achterberg 1983: 5; Tobias *et al.* 1986: 147.

Material. 45♂ and 26♀ from Finland (DAZH, MZH, VVPC, Fig. 1). Al: Jomala (Grid 27°E 668:10), 29.6.1958, 1♂ 1♀, W. Hellén. Ab: Nädendal = Naantali (671:22),

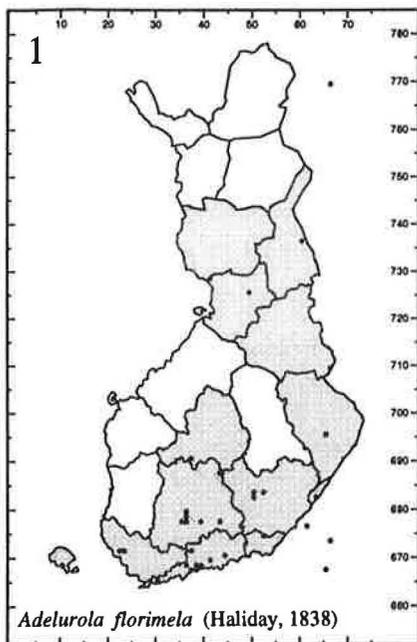


Fig. 1. Distribution of *Adelurola florimela* in Finland.

5.8.1937, 1♂, W. Hellén. Åbo = Turku (Runsala = Ruisalo, 671:23), 1♂, W. Hellén. Vihti, (Siikajärvi, 668:36), 2.-12.7., 15.8.1954, 5.-14.7., 24.-26.8.1955, 22.6.1958, 3♂ 9♀, V. J. Karvonen leg. N: Esbo = Espoo (667:37, 668:37), 15.6.1918, 22.8.1959, 3♀, W. Hellén. Helsinki (667:38, 668:38, 668:39), 11.5.1957, 1♂, Å. Nordström; 11.6.1959, 1♂, V. Vikberg; 10.-15.6., 11.7., 14.8.1979, 14.-26.6.1980, 9♂, M. Koponen. Nurmijärvi (671:37), 7.6.1975, 14.7.1979, 24.8.1980, 4♂ 1♀, M. Koponen. Pernå = Pernaja (670:44), 11.8.1944, 27.6.1951, 13.7.1958, 1♂ 2♀, Å. Nordström. Porvoon pit. = Porvoo rural municipality (669:41), 1♂, E. Suomalainen. Ekenäs = Tammissaari (665:30), 11.8.1925, 1♀, W. Hellén. Tikkurila (668:39), 13.-17.6.1920, 2♂, Y. Hukkinen. Ka: Miehikkälä (674:52), 19.6.1979, 1♂, M. Koponen. Ta: Hämeenlinna (677:36), 13.6.1976, 1♀, V. Vikberg. Hattula (677:35), 1921, 1♀, M. Hellén. Hauho (678:36, 679:38), 13.-14.8.1935, 1♂ 2♀, W. Hellén. Korpilahti (687:43), 20.8.1986, 1♂, M. Koponen. Lammi (677:39), 14.-15.7.1976, 2♂, M. Koponen. Nastola (677:43), 22.6.1980, 1♂, M. Koponen. Sa: Anttola (683:52), 15.8.1976, 1♂, M. Koponen. Mikkelin mlk. = Mikkeli rural municipality (683:50), 24.6.2000, 2♀, M. Koponen. Ristiina (682:50), 4.9.1982, 1♂, M. Koponen. Lk: Parikkala (682:63), 21.-24.6.1940, 11.-14.8.1943, 14.7.1945, 5♂, W. Hellén. Tb: Keuruu (690:37), 31.7.1928, 1♂, W. Hellén. Kb: Kontiolahti (695:65), 19.6.1968, 8.8.1973, 3♂, V. Vikberg. Ok: Kuhmo (709:66), 9.7.1980, 1♂, M. Koponen. Oba: Pudasjärvi (725:49), 3.7.2000, 3♂ 1♀, M. Koponen. Obb: Simo (728:41), 17.7.1980, 1♀, M. Koponen. Ks: Kuusamo (Oulanka, 736:60), 19.7.1966, 1♀, insect course leg. Also

5♂ and 2♀ from Russia (MZH), Leningrad region: Antrea (now Kamennogorsk, 671:61), 10.6.1921, 28.6.1925, 1♂ 1♀, E. Thuneberg. Sakkola (now Gromovo, 673:66), 14.6.1920, 1♂, M. Hellén. Terijoki (now Zelenogorsk, 667:65), 14.7.1924, 1♂, R. Forsius; 26.6., 18.-19.8.1927, 1♂ 1♀, W. Hellén. Murmansk region: Yläluostari (now Zapoljarnyi, 769:66), 1930, 1♂, W. Hellén.

Reported by Krogerus (1927) from Russia, Leningrad region: Terijoki, Kuokkala (now Repino, 667:66). A new species to present-day Finland.

Hosts. Diptera, Anthomyiidae: *Pegomya nigratarsis* (Zetterstedt, 1838), *P. hyoscyami* (Panzer, 1809), and Tephritidae: *Euleia cognata* (Wiedemann, 1817).

Anisocyrtia alpinicola van Achterberg, 1986

Anisocyrtia alpinicola van Achterberg, 1986: 228–230.

Material. 1♀ from Finland (DAZH, Fig. 2). N: Helsinki (668:38), 30.9.1979, M. Koponen.

Distribution. Austria, Finland, Italy.

A new species to Finland.

Host. one species of *Anisocyrtia* is known to parasitize larvae of Calypttratae flies in mushrooms (van Achterberg 1986).

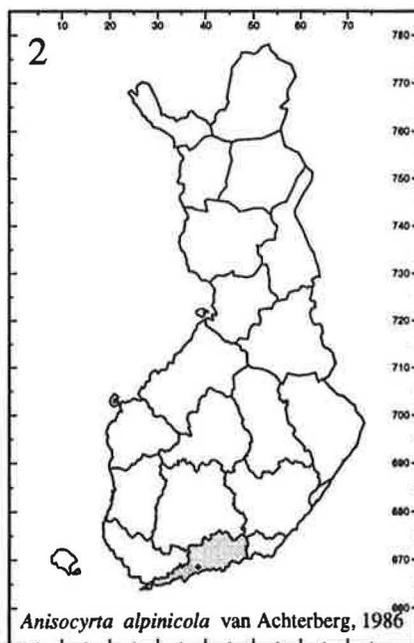


Fig. 2. Distribution of *Anisocyrtia alpinicola* in Finland.

***Anisocyrtia perdita* (Haliday, 1838)**

Alysia (*Alysia*) *perdita* Haliday, 1838: 241.

Anisocyrtia perdita: Foerster 1862: 268; Shenefelt 1974: 956; van Achterberg 1986: 289 (key), 295.

Anisocyrtia longicauda Tobias, 1962: 96; Fischer 1971: 60 (redescription). Synonymized by van Achterberg (1986).

Material. 36♂ and 67♀ from Finland (DAZH, KUH, MZH, VVPC, Fig. 3). Al: Hammarland (671:09), 12.8.1946, 1♀, W. Hellén. Ab: Särki-salo (666:27), 21.9.1994, 1♀, M. Koponen. Vihti (670:36), 21.9.1975, 1♀, M. Koponen. N: Esbo = Espoo (666:37, 667:37), 22.8.1959, 1♀, W. Hellén; 27.8.1982, M. Koponen. Helsinki (668:38, 668:39), (Mellungsby), 1♀, W. Hellén; 9.9.1978, 23.8.1984, 1♂ 1♀, M. Koponen. Nurmijärvi (670:37, 670:38, 671:37, 671:38), 4.9.1976, 28.8., 3.10.1982, 14.9.1985, 27.8.1986, 20.8., 5.9.1989, 1.9.1991, 23-31.8.1992, 26.8.1993, 12.-17.8.1995, 7♂ 14♀, M. Koponen. Pyhtää (670: 47), 14.8.1981, 1♂, M. Koponen. Sibbo = Sipoo (668:40, 668:41, 669:39), 3.-14.9.1989, 1♀, Malaise trap, A. Albrecht; 27.8.1975, 26.9.1985, 2♀, M. Koponen. Siuntio (667:34), 29.8.1979, 1♀, M. Koponen. Vantaa (668:38, 668:39, 669:38), 31.8.-11.9.1975, 1♂ 3♀, M. Koponen. St: Nakkila (681:23), 10.8.1992, 1♂, M. Koponen. Ta: Hämeenlinna (676:36, 677:36), 6.7.1975, on *Leucopaxillus giganteus* 6.9.1975, 13.6.1976, 7♀, V. Vikberg. Hausjärvi (674:38), 23.8.1981, 1♂, M. Koponen. Janakkala (675:36, 675:37), 9.9.1976,

2.9.1981, 2♂ 1♀, V. Vikberg; 4.9.1981, 28.8.-18.9.1982, 2♂ 3♀, M. Koponen. Jämsä (686:40), 27.8.1991, 1♀, M. Koponen. Korpilahti (687:43), 20.8.1986, 2♀, M. Koponen. Lammi (677:39), 23.8.1981, 1♀, M. Koponen. Säynätsalo (689:43), 12.-19.8.1960, 2♀, V. Vikberg. Sa: Joutseno (677:58), 23.9.1937, 14.9.1945, 2♀, E. Thuneberg. Mikkelin mlk. (683:50), 26.8.1978, 26.9.1982, 28.7.1990, 6.8.1993, 13.8.1998, 7♂ 4♀, M. Koponen. Puumala (683:56), 6.9.1981, 1♂, M. Koponen. Ristiina (682:50), 31.8.1985, 1♂ 1♀, M. Koponen. Valkeala (677:50), 28.7.1977, 1♂, M. Koponen. Tb: Keuruu (690:37), 5.8.1928, 1♂ 1♀, W. Hellén. Laukaa (692:44), 19.8.1986, 1♂, M. Koponen. Äänekoski (695:42), 21.8.1986, 3♀, M. Koponen. Kb: Kontiolahti (695:63), 8.9.1973, 1♀, V. Vikberg. Liperi (695: 62, 695:63), pine forest, 1.-10.9.1972, 2♀, V. Vikberg; 4.8.1993, 1♂ 1♀, M. Koponen. Pyhä-selkä (Hammaslahti, 692:65), 28.7.1917, 1♂, P. Kontkanen. Ok: Kuhmo (709:61, 710:59), 25.8.-10.9.1997, 1♂ 1♀, M. Kuussaari *et al.* leg. Lkor: Savukoski (7460:537), 10.8.1983, 1♀, M. Koponen. Sodankylä (750:48), 11.8.1983, 1♀, M. Koponen. Le: Enontekiö, (Kilpisjärvi, 767:25), 26.6.-4.7.1939, 1.-6.7.1942, 1.-14.7.1950, 1♂ 4♀, W. Hellén; 30.6.1982, 1♂, Y. Zhongqi. Li: Utsjoki (Outakoski, shore of the river Tana, 772:45), 30.6.1947, 1♂, W. Hellén; (Onnela, 775:50), 15.6.1937, 1♂, W. Hellén; (Nuorgam, 777:53), 1930, 1♀, W. Hellén; (Kevo, Kutuniemi, 774:50), sweeping from dry meadow, 15.8.1983, 1♂, M. Koponen leg.

Distribution. At least Finland, Norway, Russia, Scotland, Sweden; Canada (van Achterberg 1986).

A new species to Finland.

Host. Vikberg has collected specimens from mushroom *Leucopaxillus giganteus* Fr. (Sing.). According to Hackman & Meinander (1974) *Pegomya pallidoscuteolata* (Zetterstedt, 1852) (Diptera, Anthomyiidae) lives in this mushroom and thus is possible host.

***Asyntactus rhogaleus* Marshall, 1898**

Asyntactus rhogaleus Marshall, 1898: 240. Schmiedeknecht 1930: 370; Fischer 1971: 72 (redescription); Shenefelt 1974: 982.

Material. 5♂ and 6♀ from Finland (DAZH, VVPC, Fig. 4). N: Hyvinkää (672:37), 23.5.1987, M. Koponen. Nurmijärvi (670:38), 7.-9.5.1989, 17.5.1998, M. Koponen; 30.5.2000, 1♀, V. Vikberg. Ta: Janakkala (675:36), 6.6.2000, V. Vikberg. Lkoc: Kolari (750:37), 29.6.1997, M. Koponen leg.

Otto Schmiedeknecht found braconids, which he did not know, at the end of the last century, near the end of April, close to his place of dwelling in Thüringen in a swamp meadow, from shore plants of a water pit. He sent them to T. A. Mar-

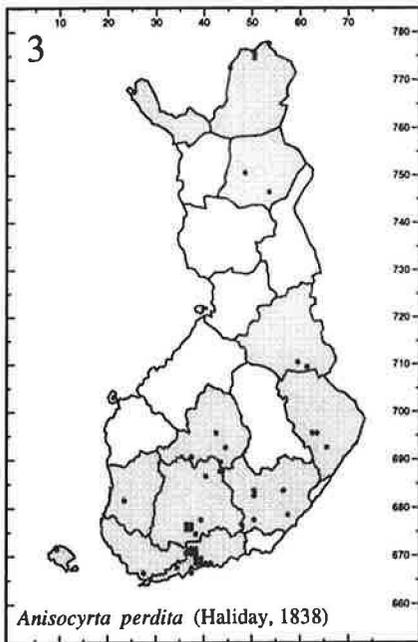


Fig. 3. Distribution of *Anisocyrtia perdita* in Finland.

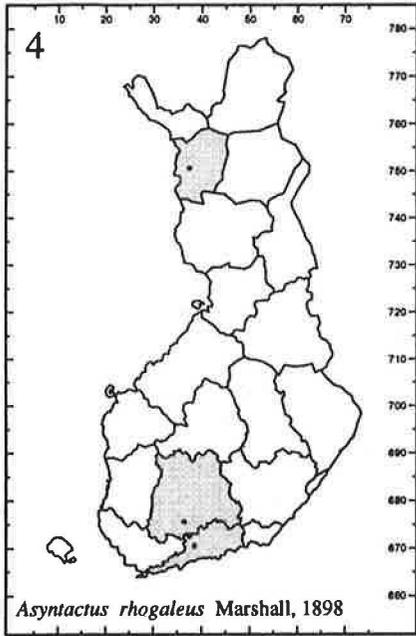


Fig. 4. Distribution of *Asyntactus rhogaleus* in Finland.

shall, who described a new genus *Asyntactus* with two species *A. rhogaleus* and *A. sigalphoides* Marshall, 1898 (Schmiedeknecht 1930). The first species has also been found in Austria by C. Tschek, presumably at the end of the 19th century (Fischer 1971).

The first Finnish specimen (♀) of *A. rhogaleus* was found on 23.5.1987 from the northern shore of lake Kytäjärvi in Hyvinkää (6725:370), during a spring excursion of the Entomological Society of Finland. The specimens (5♂ and 1♀) from Nurmijärvi are from two places about 4 km apart from each other, both on shore vegetation of the river Vantaanjoki, on 7.-9.5.1989 (6704:381), and on 17.5.1998 (6708:382). The northernmost specimen (♀) from Kolari (7504:379), 29.6.1997 is from shore vegetation of lake Äkäslompolo, collected during a summer excursion of the Entomological Society of Finland. The most recent specimen (♀) was caught by V. Vikberg from Janakkala (6755:361), on the shore of the river Rääkälänjoki.

Distribution. Austria, Finland, Germany.

A new species to Northern Europe including Finland.

Host. Unknown but presumably living in shore vegetation.

According to Fischer (1971) the number of antennal segments is 54. Females from Finland have 43 antennal segments, and the males have 49-52 segments.

Symphanes striolata (Thomson, 1895)

Alysia striolata Thomson, 1895: 2291; Henriksen 1919: 199.

Bobeckia striolata: Fulmek 1962: 38.

Symphanes striolata: Fischer 1971: 137; Shenefelt 1974: 1020; Tobias *et al.* 1986: 157.

Material. 1♂ and 7♀ from Finland (DAZH, Fig. 5). Ab: Turku, (Ruissalo, 671:23), 18.9.1981, 1♀, M. Koponen. N: Espoo (666:37), 27.8.1982, 1♀, M. Koponen. Helsinki (668:38, 668:39), 27.8. 1975, 4.10.1978, 3♀, M. Koponen. Sa: Mikkeli (684:51), 17.8.1980, 1♀, M. Koponen. Ristiina (682:50), 6.8.1977, 1♀, M. Koponen. Tb: Rautalampi (Kalajanvuori, 694:48), 17.7.1983, 1♂, M. Koponen leg.

Distribution. Denmark, Finland, Sweden.

A new species to Finland.

Hosts. Diptera, Agromyzidae: *Napomyza elegans* (Meigen, 1830), *Metopomyza ornata* (Mei-

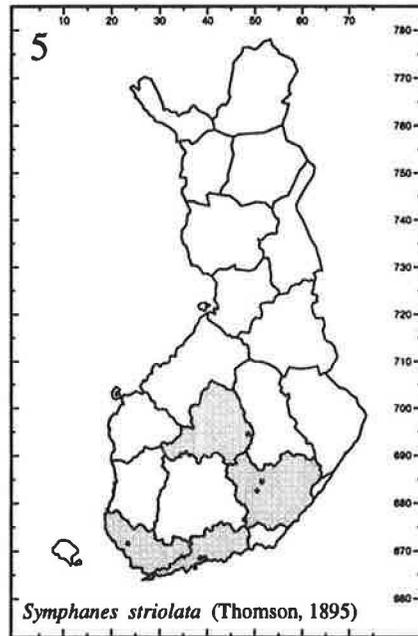


Fig. 5. Distribution of *Symphanes striolata* in Finland.

gen, 1830) on *Butomus umbellatus*, *Phytomyza scolopendri* Robineau-Desvoidy, 1851 (Henriksen 1919, Fulmek 1962, Tobias *et al.* 1986).

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