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***Ichneumonidae (Hymenoptera) of the surroundings of Gastein in the Alps. Part I***

[With 1 text-fig]

**Gąsienicznikowate (Hymenoptera, Ichneumonidae) okolic Gasteinu  
w Alpach. Część I**

**Abstract.** The fauna *Ichneumonidae* in the surroundings of Gastein in the Salzburg Alps was studied in the years 1984—1986. Its part reported in the present paper includes 137 species reckoned to the subfamily *Ephialtinae*; 16 of them are new to the fauna of Austria.

I. INTRODUCTION

The studies on the *Ichneumonidae* fauna of the Alps began in the XIX-th century. The first papers dealing with that fauna were published by KRIECHBAUMER (1872, 1872 a, 1887) and KRIECHBAUMER, FISCHBEIN (1881). In the present century several papers concerning that problem were published by SCHMIEDEKNECHT (1906—1908), FRANZ (1943, 1949), HEDWIG (1956, 1957) and BAUER (1985).

Investigations on these useful insects living in the surroundings of Gastein are altogether lacking.

It was the aim of the research to study the species composition of *Ephialtinae*.

In the years 1982—1986 investigations were carried out in the valleys of Fusch, Rauris and Gastein as well as in their side valleys: Fusch up to 950 m above sea-level, Rauris with the slopes of Grubereck (up to 2150 m), Geisbachatal (950 m), Seidlwinkltal with the slopes of Edlenkogel (up to 2350 m), Hochtor (up to 2150 m), Hochalm (1650 m), Grubereck (up to 2150 m), Hüttwinkltal and Krumltal with the slopes of Ritterkopf (up to 2350 m), Durchgangalm (1700 m), Feldereralm (1750 m), Kolm Saigurn (up to 1550 m), Gastein with slopes of Stubnerkogel (up to 2200 m), Salezen Htt. (up to 1550 m), Angertal (up to 1550 m), Sigrifttal (1650 m), Kötschachtal with the slopes of Poserhöhe (up to 1650 m), Heimalm (1300 m), Frohnalm (1450 m) and Karalm (1600 m). The area of investigations was bordered in the south by the boundary of the land and the Nassfelder stream, in the north by the river Salzach, in the west by Fusch valley, and in the east by Gastein valley (Fig. 1).

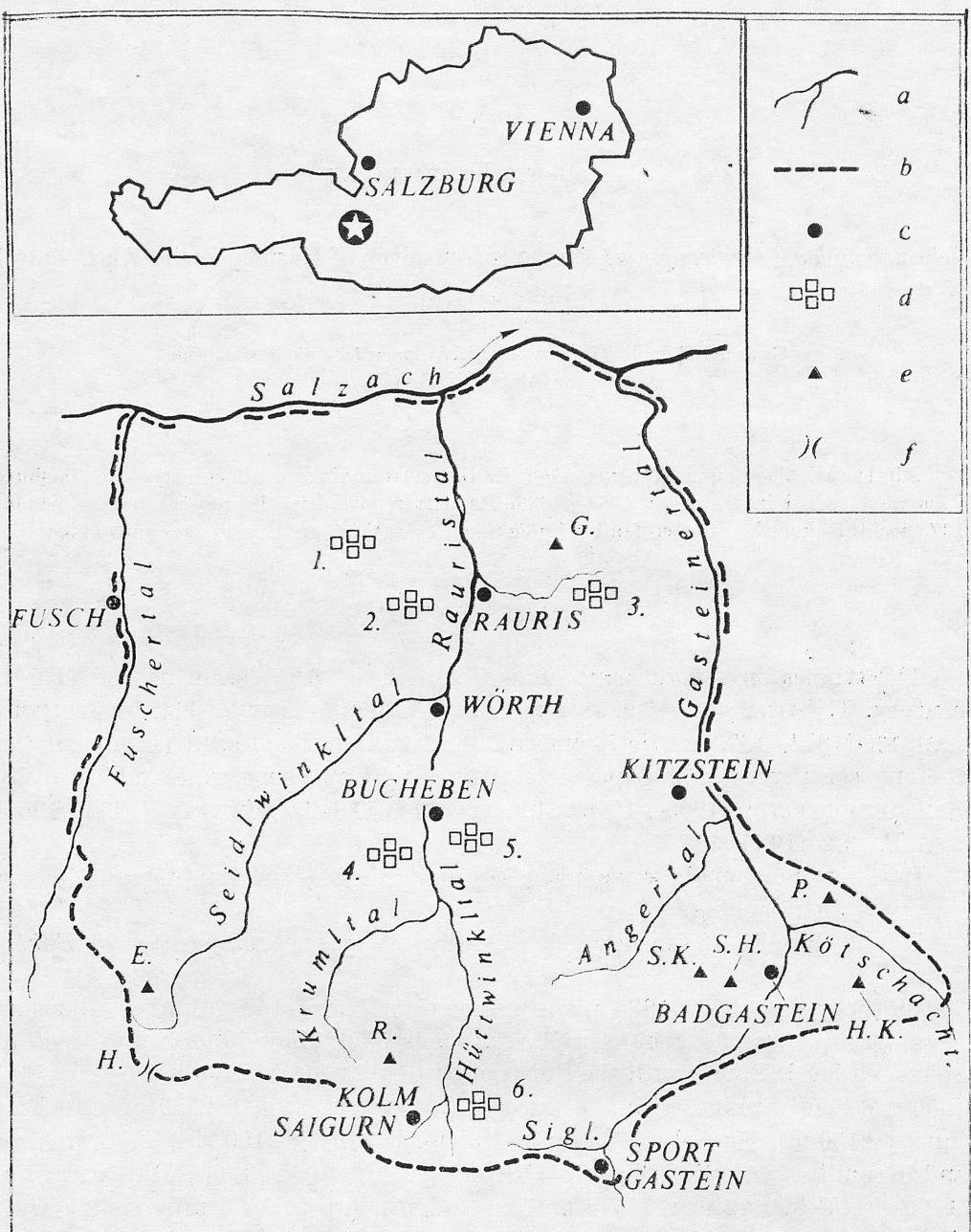


Fig. 1. Study area in the Salzburg Alps. a — rivers and streams, b — boundary of the study area, c — towns and villages, d — meadows (1 — Hochalm, 2 — Heimalm, 3 — Karalm, 4 — Feldereralm, 5 — Grohnalm, 6 — Durchgangalm), e — mountain peaks (E. — Edlenkogel, G. — Grubereck, H.K. — Hütten Kogel, P. — Poserhöhe, R. — Ritterkopf, S.H. — Salezen Htt., S.K. — Stubner Kogel), f — pass (H. — Hochtor), Sigl. — Siglitztal

The classification and definition of the particular zoogeographical elements was accepted after PAWŁOWSKI (1967) and KASPARYAN (1981). The hosts are reported here according to KASPARYAN (1981). New species to the fauna of Austria are marked by explanation mark „!”.

Almost the whole material of the *Ichneumonidae* was collected by the author (128 species). Single specimens (6 species) were caught by Dr M. DYLEWSKA and 3 species by Dr A. KOSIOR, to whom the author wishes to express his cordial thanks.

I am grateful to Professor Dr H. ADAM of Zoological Institute University of Salzburg, and to Dr A. SÄNGER of Research Institute Gastein — Tauern-region, in Badgastein who created conditions for the realization of this paper.

## II. LIST OF SPECIES

1. *Exeristes arundinis* (KRIECHBAUMER, 1887). Kötschachtal (1220) 15 VI 1984. Meadow: 5♀; slope of Ritterkopf (1650) 10 VII 1986 Forest glade: 3♂; hosts: *Chloropidae* Euro-Siberian element.

2. *Exeristes roborator* (FABRICIUS, 1793). Feldereralm (1700 m) 11 VII 1985. Spruce forest: 4♂; hosts: *Curculionidae*, *Sesiidae*, *Tortricidae*, *Phycitidae*, *Pyraustidae*, *Icheumonidae*. Subpontomediterranean element.

3. *Exeristes ruficollis* (GRAVENHORST, 1829). Krumltal (1250 m) 12 VI 1984. Spruce forest: 1♀; hosts: *Curculionidae*, *Tortricidae*. Submediterranean element.

4. *Afrephialtes cicatricosa* RATZEBURG, 1850. Bucheben (1050 m) 10 VIII 1984. Alder-willow shrubs; 1♀; hosts: *Curculionidae*, *Sesiidae*. European element.

5. *Scambus annulatus* KISS, 1924. Poserhöhe (1600 m) 4 VII 1986. Spruce forest: 1♂ 3♀; hosts: *Curculionidae*, *Cynipidae*, *Tenthredinidae*, *Glyiphitygidae*, *Glacyllariidae*. Montane element.

6. *Scambus brevicornis* (GRAVENHORST, 1829). Seidwinktal (1000 m) 5 VIII 1984. Pasture; 2♀; Steinalm (1300 m) 6 IX 1985. Meadow: 1♂; hosts: *Curculionidae*. Montane element.

7. *Scambus arundinator* (FABRICIUS, 1798). Slope of Ritterkopf (1900 m) 9 VI 1984. Larch forest; 1♂; slope of Ritterkopf (1850 m) 10 VIII 1985. Larch forest; 1♂; hosts: *Chloropidae*. Palaearctic element.

8. *Scambus buolianae* HARTIG 1841. Frohnalm (1350 m) 14 VI 1984. Spruce forest; 1♀; hosts: *Tortricidae*, *Gelechiidae*. Euro-Siberian element.

9. *Scambus calobatus* (GRAVENHORST, 1829). Stanzscharte (2000 m) 9 VII 1985. Pasture; 3♂ 2♀; hosts: *Curculionidae*. Submediterranean element.

10. *Scambus capitator* AUBERT, 1969. Kolm Saigurn (1550 m) 6 VI 1984. Spruce forest; 1♀; Hochalm (1650 m) 13 VIII 1984. Pasture; 2♂; hosts: *Tortricidae*. Euro-Siberian element.

11. *Scambus detritus* (HOLMGREN, 1860). Feldereralm (1700 m) 2 VII 1984.

Spruce forest; 2 ♀; slope of Stubnerkogel (2150 m) 3 VII 1984. Pasture: 1 ♂; hosts: *Sesiidae*, *Tortricidae*, *Argyrestiidae*, *Crambidae*, *Chloropidae*, *Cephidae*, *Cynipidae*. Euro-Siberian element.

12. *Scambus dilutus* (RATZEBURG, 1852). Krumltal (1550 m) 5 VIII 1986. Spruce forest; 1 ♂; hosts: *Tortricidae*, *Noctuidae*. European element.

13. *Scambus foliae* CUSHMAN, 1915. Angertal (1550 m) 30 VII 1985. Glade; 1 ♀; hosts: *Tortricidae*. Euro-Siberian element.

14. *Scambus nigricans* (THOMSON, 1877). Kötschachtal (1120 m) 30 VII 1986. Spruce forest; 1 ♀; slope of Ritterkopf (1950 m) 19 VII 1984. Larch forest; 2 ♂; hosts: *Tortricidae*, *Oecophoridae*, *Phycitidae*, *Geometridae*, *Noctuidae*, *Cephidae*, *Chloropidae*. Euro-Caucasian element.

15. *Scambus nitidus* (BRAUNS, 1904). Edlenkogel (1950 m) 27 VI 1984. Larch forest; 1 ♀; slope of Stubnerkogel (2100 m) 19 VI 1984. Larch forest; 1 ♂; hosts: *Noctuidae*. Boreal-montane element.

16. ! *Scambus phragmitidis* (PERKINS, 1905). Bucheben (1050 m) 11 VII 1984. Meadow: 3 ♀; Feldereralm (1700 m) 5 VIII 1985. Spruce forest; 1 ♂; hosts: *Chloropidae*. Euro-Siberian element.

17. *Scambus planatus* (HARTIG, 1842). Hochalm (1750 m) 7 VII 1984. Larch forest; 2 ♀; Hochalm (1800 m) 11 VIII 1986. Larch forest; 1 ♂; hosts: *Noctuidae*. Euro-Caucasian element.

18. *Scambus sagax* (HARTING, 1840). Kolm Saigurn (1550 m) 10 VII 1984. Forest glade; 1 ♀; Bucheben (1050 m) 2 VII 1986. Meadow; 2 ♂; hosts: *Tortricidae*. Euro-Siberian element.

19. *Scambus strobilarum* (RATZEBURG, 1848). Kötschachtal (1100 m) 14 VII 1984. Meadow: 1 ♀; Seidlwinkltal (1200 m) 9 VIII 1984. Spruce forest; 1 ♂; hosts: *Tortricidae*. Euro-Siberian element.

20. *Scambus vesicularius* (RATZEBURG, 1884). Salezen Htt. (1600 m) 27 VII 1985. Spruce forest: 2 ♀; Sigrizztal (1700 m) 29 VII 1985. Glade; 1 ♂; hosts: *Tenthredinidae*. Euro-Siberian element.

21. *Ephialtes brevis* MORLEY, 1907. Angertal (1200 m) 30 VII 1985. Glade; 1 ♀; Feldereralm (1700 m) 12 VIII 1986. Pasture; 1 ♀; Bucheben (1200 m) 10 VIII 1986. Spruce forest; 1 ♂; hosts: *Megachilidae*. Montane element.

22. *Ephialtes manifestator* (LINNAEUS, 1758). Slope of Stubnerkogel (2150 m) 19 VI 1984. Forest glade; 1 ♀; Bucheben (1050 m) 5 VIII 1985. Alder-willow scrub; 1 ♂; Sigrizztal (1750 m) 29 VII 1985. Pasture; 1 ♀; hosts: *Cerambycidae*, *Tenthredinidae*. Palaearctic element.

23. *Ephialtes spatulatus* TOWNES, 1960. Hüttwinkltal (1280 m) 12 VIII 1985. Glade; 1 ♀; Krumltal (1550 m) 17 VI 1984. Pasture; 1 ♂; Kötschachtal (1000 m) 24 VII 1985. Alder-willow scrub; 1 ♂; hosts: *Eumenidae*. Holarctic element.

24. *Ephialtes duplaicauda* HEINRICH, 1949. Bucheben (1050 m) 12 VII 1984. Alder-willow scrub; 1 ♀; host unknown. Palaearctic element.

25. *Townesia tenuiventris* (HOLMGREN, 1859). Seidlwinkltal (1850 m) 24 VII 1985. Larch forest; 1 ♂; Bucheben (1050 m) 30 VIII 1985. Meadow; 1 ♂; Bad-

gastein (1000 m) 23 VI 1984. Meadow; 3 ♀; hosts: *Tortricidae*, *Tenthredinidae*, *Cerambycidae*. Holarctic element.

26. *Liotryphon arcticus* (ROMAN, 1914). Slope of Ritterkopf (1900 m) 10 VIII 1985. Larch forest; 1 ♂; Grubereck (2150 m) 16 VIII 1985. High-mountain grassland; 1 ♂; hosts: *Tortricidae*. Holarctic element.

27. *Liotryphon punctulatus* (RATZEBURG, 1850). Bucheben (1050 m) 2 VII 1986. Pasture; 1 ♀; Frohnalm (1250 m) 22 VIII 1985. Meadow; 1 ♀; hosts: *Tortricidae*. Euro-Caucasian element.

28. *Dolichomitus atratus* (RUDOW, 1886). Krumltal (1350 m) 30 VI 1984. Spruce forest; 1 ♀; Feldereralm (1700 m) 5 VIII 1985. Forest glade; 1 ♂; hosts: xylophagous insects. Palaearctic element.

29. *Dolichomitus brevicornis* (TSCHEK, 1868). Frohnalm (1250 m) 8 VII 1984. Meadow; 1 ♀; Bucheben (1050 m) 8 VII 1984. Meadow; 1 ♀; hosts: xylophagous insects. Holarctic element.

30. *Dolichomitus cephalotes* (HOLMGREN, 1859). Frohnalm (1250 m) 19 VI 1984. Spruce forest; 2 ♀; host unknown. Holarctic element.

31. *Dolichomitus cognator* (THUNBERG, 1827). Fusch (950 m) 19 VIII 1985. Alder-willow scrub; 1 ♀; host unknown. European element.

32. *Dolichomitus crassiceps* (THOMSON, 1877). Angertal (1550 m) 30 VII 1985. Spruce forest; 1 ♀; host unknown. European element.

33. *Dolichomitus diversicostae* (PERKINS, 1959). Slope of Stubnerkogel (2100 m) 24 VII 1985. Larch forest; 1 ♀; host unknown. Euro-Siberian element.

34. *Dolichomitus dobrogensis* CONSTANTINEANU et PISICA, 1968. Krumltal (1850 m) 17 VI 1984. Spruce forest; 1 ♀; host unknown. European element.

35. *Dolichomitus dux* (TSCHEK, 1864). Sigritztal (1650 m) 29 VII 1985. Spruce forest; 1 ♂; Feldereralm (1700 m) 27 VI 1984. Pasture; 1 ♀; host unknown. Euro-Caucasian element.

36. *Dolichomitus imperator* (KRIECHBAUMER, 1888). Salezen Htt. (1550 m) 27 VII 1985. Forest glade; 2 ♀; host unknown. Holarctic element.

37. *Dolichomitus mesocentrus* (GRAVENHORST, 1829). Angertal (1200 m) 3 IX 1985. Spruce forest; 3 ♀; Durchgangalm (1700 m) 13 VIII 1985. Larch forest; 1 ♂; host unknown. Subpontic element.

38. *Dolichomitus messor* (GRAVENHORST, 1829). Bucheben (1050 m) 7 VII 1984. Alder-willow scrub; 1 ♀; slopes of Edlenkogel (2350 m) 26 VII 1984. Glade; 1 ♂; host unknown. Holarctic element.

39. ! *Dolichomitus mordator* AUBERT, 1964. Grubereck (2150 m) 16 VIII 1985. High-mountain grassland; 1 ♀; Bucheben (1000 m) 30 VIII 1985. Alder-willow scrub; 1 ♂; hosts: *Cerambycidae*, *Xiphydriidae*. Palaearctic element.

40. *Dolichomitus populneus* (RATZEBURG, 1850). Karalm (1600 m) 16 VIII 1985. Spruce forest; 1 ♀; Badgastein (1000 m) 21 VII 1985. Alder-willow scrub; 1 ♂; host unknown. Holarctic element.

41. *Dolichomitus pterelas* (SEYRIG, 1943). Grubereck (2150 m) 16 VIII 1985. High-mountain grassland; 1 ♀; A. KOSIOR leg. Host unknown. Montane element.

42. *Dolichomitus scutellaris* (THOMSON, 1886). Seidwinktal (1200 m) 13 VI 1984. Spruce forest; 1 ♀; Kitzstein (1300 m) 26 VII 1985. Spruce forest; 1 ♂; Poserhöhe (1600 m) 20 VI 1984. Spruce forest; 1 ♂; host unknown. Euro-Siberian element.

43. *Dolichomitus sericeus* (HARTIG, 1840). Angertal (1250 m) 3 IX 1985. Spruce forest; 1 ♀; Hüttwinktal (1350 m) 12 VIII 1985. Spruce forest; 1 ♀; host unknown. Holarctic element.

44. *Dolichomitus subglabratus* (PERKINS, 1910). Hüttwinktal (1300 m) 12 VIII 1985. Spruce forest; 1 ♀; host unknown. European element.

45. *Dolichomitus terebrans* (RATZEBURG, 1849). Durchgangalm (1700 m) 1 VIII 1985. Spruce forest; 1 ♂; Bucheben (1050 m) 13 VIII 1984. Forest glade; 2 ♀; host unknown. Holarctic element.

46. *Dolichomitus tuberculatus* (GEOFFROY, 1829). Durchgangalm (1900 m) 13 VIII 1986. Larch forest; 1 ♀; Frohnalm (1450 m) 22 VIII 1984. Forest glade; 1 ♀; Bucheben (1050 m) 7 VII 1984. Alder-willow scrub; 1 ♀; hosts: xylophagous insects. Holarctic element.

47. *Acropimpla didyma* (GRAVENHORST, 1829). Feldereralm (1700 m). Forest glade; 3 ♀; Bucheben (1150 m) 12 VIII 1984. Meadow; 1 ♂; hosts: *Noctuidae*. Palaearctic element.

48. *Acropimpla pictipes* (GRAVENHORST, 1829), Kötschachtal (1150 m) 23 VII 1986. Forest glade; 1 ♂; hosts: *Gelechiidae*, *Geometridae*. Euro-Caucasian element.

49. *Gregopimpla inquisitor* (SCOPOLI, 1915). Krumltal (1450 m) 14 VIII 1985. Spruce forest; 1 ♂; Heimalm (1300 m) 12 VIII 1984; Pasture; 1 ♂; Salezen Htt. (1550 m) 3 IX 1984. Spruce forest; 1 ♂; hosts: *Lasiocampidae*, *Lymantriidae*. Euro-Siberian element.

50. *Gregopimpla malacosomae* (SEYRIG, 1927). Angertal (1500 m) 1 VII 1984. Alder-willow scrub; 2 ♀; hosts: *Lasiocampidae*. Euro-Asiatic element.

51. *Iseropus stercorator* (FABRICIUS, 1804). Kötschachtal (1600 m) 14 VII 1984. Forest glade; 1 ♂; hosts: *Zygaenidae*, *Pyraustidae*. Euro-Siberian.

52. *Tromatobia oculatoria* (FABRICIUS, 1798). Bucheben (1050 m) 10 VIII 1984. Meadow; 1 ♂; hosts: *Araneidae*, *Thomisidae*. Montane element.

53. *Tromatobia ornata* (GRAVENHORST, 1829). Frohnalm (1450 m) 7 VII 1984. Spruce forest; 1 ♂; Hochalm (1650 m) 14 VIII 1984. Spruce forest; 1 ♂; hosts: *Araneidae*. Palaearctic element.

54. *Tromatobia orivora* (BOHEMAN, 1821). Angertal (1400 m) 3 IX 1984. Spruce forest; 1 ♂; Sigrizztal (1650 m) 29 VII 1986. Spruce forest; 1 ♂; hosts: *Theridiidae*. Palaearctic element.

55. *Tromatobia variabilis* HOLMGREN, 1854. Kötschachtal (1150 m) 14 VII 1984. Meadow; 2 ♀; hosts: *Araneus cornutus* CL. Holarctic element.

56. *Zaglyptus multicolor* (GRAVENHORST, 1829). Slopes of Edlenkogel (2350 m) 11 VIII 1985. High-mountain grassland; 1 ♀; hosts: *Meta merianae* SCOP., *Araneus cucurbitinus* CL., *Clubiona phragmitis* KOCH. Boreal-montane element.

57. *Zaglyptus varipes* (GRAVENHORST, 1829). Slopes of Stubnerkogel (2000 m)

- 10 VI 1984. Larch forest; 1 ♂; hosts: *Chiracanthium* sp., *Attulus* sp. Boreal-montane element.
58. ! *Clistopyga canadensis* PROVANCHER, 1883. Bucheben (1050 m) 11 V 1986. Pasture; 1 ♀; 14 V 1986. Meadow; 1 ♂; M. DYLEWSKA leg. hosts: *Araneidae*. Boreal-montane element.
59. *Clistopyga incitator* (FABRICIUS, 1793). Grubereck (2150 m) 27 VI 1984. High-mountain grassland; 1 ♀; hosts: *Araneidae*. Palaearctic element.
60. *Clistopyga rufator* HOLMGREN, 1854. Slope of Hochtor (2150 m) 27 VI 1984. High-mountain grassland; 1 ♀; Krumltal (1500 m) 15 VIII 1985. Spruce forest; 1 ♂; hosts: *Araneidae*. Euro-Caucasian element.
61. *Dreisbachia pictifrons* (THOMSON, 1873). Slope of Ritterkopf (1850 m) 11 VI 1984. Larch forest; 1 ♀; Kitzstein (1300 m) 27 VII 1985. Forest glade; 2 ♂; host: *Drassodes lapidosus* WALCK. Palaearctic element.
62. *Schizopyga circulator* (PANZER, 1801). Krumltal (1000 m) 16 VI 1984. Alder-willow scrub; 3 ♂; hosts: *Araneidae*. Subpontic element.
63. *Schizopyga flavifrons* HOLMGREN, 1856. Bucheben (1150 m) 11 V 1986. Pasture; 1 ♀; M. DYLEWSKA leg. Hosts: *Clubionidae*. Euro-Asiatic element
64. ! *Schizopyga frigida* (CRESSON, 1865). Seidlwinkltal (1000 m) 10 VIII 1985. Alder-willow scrub; 1 ♀; slope of Ritterkopf (1900 m) 14 VI 1984. Larch forest; 1 ♂; Bucheben (1150 m) 3 VIII 1985. Pasture; 1 ♂; hosts: *Araneidae*. Holarctic element.
65. ! *Schizopyga podagraria* GRAVENHORST, 1829. Kitzstein (1200 m) 26 VII 1985. Spruce forest; 1 ♂; host: *Chiracanthium erraticum* WALCK. Subponto-mediterranean element.
66. ! *Zabrychypus primus* CUSMAN, 1920. Hüttwinkltal (1300 m) 12 VIII 1985. Forest glade; 1 ♀; host unknown. Montane element.
67. *Acrodactyla carinator* AUBERT, 1969. Slope of Stubnerkogel (1750 m) 23 VI 1984. Larch forest; 1 ♀; host unknown. European element.
68. ! *Acrodactyla degener* (HALIDAY, 1839). Poserhöhe (1650 m) 20 VI 1984. Spruce forest; 1 ♀; Karalm (1600 m) 3 VIII 1985. Spruce forest; 1 ♂; hosts: *Leptophantes obscurus* BLACKWALL, *L. zebrinus* MENGN, *Microneta varia* BLACKWALL. Montane element.
69. ! *Acrodactyla madida* (HALIDAY, 1839). Slope of Stubnerkogel (1950 m) 9 VI 1984. Larch forest; 1 ♀; Seidlwinkltal (1000 m) 14 VI 1984. Alder-willow scrub; 1 ♂; host: *Meta segmentata* CL. Subpontic element.
70. ! *Acrodactyla rufithorax* GYÖRFI, 1962. Heimalm (1300 m) 30 VIII 1985. Spruce forest; 1 ♀; hosts: *Tetragnathidae*. European element.
71. ! *Piogaster albina* PERKINS, 1958. Angertal (1500 m) 12 VIII 1985. Spruce forest; 1 ♂; host unknown. European element.
72. ! *Piogaster pilosator* AUBERT, 1969. Slope of Ritterkopf (1850 m) 10 VIII 1985. Larch forest; 1 ♀; host unknown. European element.
73. ! *Polysphincta carbonator* (GRAVENHORST, 1829). Frohnalm (1450 m) 22 VIII 1985. Forest glade; 1 ♀; hosts: *Araneidae*. Montane element.

74. *Polysphincta boops* TSCHEK, 1868. Geisbachtal (950 m) 17 VIII 1985. Alder-willow scrub; 1 ♀; host: *Theridium* sp. European element.
75. *Polysphincta nielseni* ROMAN, 1920. Fuschertal (950m) 19 VIII 1985. Alder-willow scrub; 1 ♀; host: *Cyclosa conica* PALL. Euro-Caucasian element.
76. *Polysphincta tuberosa* (GRAVENHORST, 1829). Durchgangalm (1700 m) 17 VIII 1985. Spruce forest; 1 ♀; hosts: *Araneidae*, *Clubionidae*. Holarctic element.
77. *Sinarachna anomala* (HOLMGREN, 1860). Krumltal (1250 m) 12 VIII 1986. Spruce forest: 1 ♂; Angertal (1350 m) 3 IX 1985. Forest glade; 1 ♂; hosts: *Dictynidae*. Montane element.
78. *Sinarachna nigricornis* (HOLMGREN, 1860). Sigtzstal (1650 m) 29 VII 1985. Larch forest: 1 ♂; host: *Araneidae*. Montane element.
79. *Sinarachna pallipes* (HOLMGREN, 1860). Kitzstein (1200 m) 26 VII 1985. Spruce forest; 1 ♀; hosts: *Theridiidae*, *Araneidae*. Montane element.
80. *Zatypota albicoxa* (WALKER, 1954). Bucheben (1050 m) 12 IV 1986. Meadow; 1 ♂; M. DYLEWSKA leg. Hosts: *Theridiidae*, *Agelenidae*. Euro-Siberian element.
81. *Zatypota bohemani* (HOLMGREN, 1860). Bucheben (1100 m) 8 V 1986. Pasture; 1 ♀; M. DYLEWSKA leg. Host unknown. Montane element.
82. *Zatypota gracilis* (HOLMGREN, 1860). Feldereralm (1700 m) 27 VI 1984. Spruce forest; 1 ♀; host unknown. Euro-Siberian element.
83. *Zatypota percontatoria* (MÜLLER, 1969). Angertal (1350 m) 3 IX 1985. Spruce forest; 1 ♀; host unknown. Euro-Asiatic element.
84. *Itoplectis alternans* (GRAVENHORST, 1829). Bucheben (1000 m) 3 VIII 1985. Alder-willow scrub; 1 ♂; Salezen Htt. (1600 m) 5 VII 1985. Spruce forest; 1 ♂; host unknown. Montane element.
85. *Itoplectis aterrima* JUSSILA, 1957. Slope of Stubnerkogel (2000 m) 20 VI 1984. Larch forest; 1 ♀; hosts: *Tortricidae*, *Choreutidae*. Palaearctic element.
86. *Itoplectis enslini* ULBRIGHT, 1949. Poserhöhe (1650 m) 23 VI 1984. Spruce forest; 1 ♂; hosts: *Tortricidae*. Montane element.
87. *Itoplectis insignis* PERKINS, 1959. Seidlwinkltal (1100 m) 14 VI 1984. Forest glade; 1 ♂; hosts: *Tortricidae*. European element.
88. *Itoplectis maculator* (FABRICIUS, 1775). Krumltal (1450 m) 17 VI 1984. Spruce forest; 1 ♀; hosts: *Tortricidae*. Euro-Siberian element.
89. *Itoplectis tunetana* (SCHMIEDEKNECHT, 1900). Kötschachtal (1200 m) 14 VII 1984. Forest glade; 1 ♂; hosts: *Ichneumonidae*, *Syrphidae*. Palaearctic element.
90. *Itoplectis viduata* (GRAVENHORST, 1829). Slope of Ritterkopf (1950 m) 1 VII 1984. Larch forest: 1 ♀; Angertal (1350 m) 3 IX 1985. Spruce forest; 1 ♂; hosts: *Psychidae*, *Zygenidae*, *Sesiidae*, *Tortricidae*, *Gelechiidae*, *Pyraustidae*, *Lasiocampidae*, *Noctuidae*. Holarctic element.
91. *Apechitis capulifera* KRIECHBAUMER, 1887. Poserhöhe (1650 m) 23 VI 1984. Spruce forest; 1 ♀; hosts: *Geometridae*, *Lymantriidae*, *Arctidae*, *Hesperiidae*, *Nymphalidae*, *Libytheidae*. Palaearctic element.

92. *Apechthis compuncator* (LINNAEUS, 1758). Slope of Edlenkogel (2350 m) 26 VII 1984. High-mountain grassland; hosts: *Tortricidae*, *Lasiocampidae*, *Lymantriidae*, *Pieridae*, *Nymphalidae*. Euro-Asiatic element.
93. *Apechthis quadridentata* (THOMSON, 1873). Sigritztal (1700 m) 27 VI 1984. Forest glade; 1 ♂; hosts: *Phycidae*, *Nymphalidae*, *Lasiocampidae*. Euro-Asiatic element.
94. *Apechthis rufata* (GMELIN, 1790). Geisbachatal (950 m) 23 VIII 1984. Meadow: 1 ♀; Bucheben (1050 m) 27 VII 1985. Alder-willow scrub; 1 ♂; hosts: *Psychidae*, *Tineidae*, *Gelechiidae*, *Drepanidae*. Euro-Siberian element.
95. *Pimpla aethiops* CURTIS, 1829. Salezen Htt. (1650 m) 1 VIII 1985. Spruce forest; 1 ♂; hosts: *Hesperiidae*. Euro-Asiatic element.
96. *Pimpla aquilonia* CRESSON, 1865. Feldereralm (1750 m) 27 VI 1984. Larch forest; 1 ♂; host unknown. Euro-Caucasian element.
97. *Pimpla conmixta* (KISS, 1924). Slope of Ritterkopf (1950 m) 10 VIII 1985. Larch forest; 1 ♀; host unknown. Euro-Caucasian element.
98. *Pimpla contemplator* (MÜLLER, 1766). Karalm (1500 m) 16 VIII 1985. Spruce forest; 1 ♀; Badgastein (1000 m) 24 VII 1985. Meadow; 1 ♂; host unknown. Euro-Caucasian element.
99. *Pimpla illecebulator* (VILLERS, 1789). Bucheben (1050 m) 6 V 1986. Pasture; 1 ♀; M. DYLEWSKA leg. Hosts: *Sphingidae*, *Notodontidae*. Euro-Caucasian element.
100. *Pimpla instigator* (FABRICIUS, 1804). Seidwinktal (1000 m) 9 VIII 1985. Alder-willow scrub; 1 ♀; Sigritztal (1650 m) 29 VII 1985. Larch forest; 1 ♂; hosts: *Hyphantria cunea* DRURY, *Cimbex femorata* L. Palaearctic element.
101. *Pimpla melanacrias* PERKINS, 1964. Badgastein (1000 m) 23 VII 1985. Alder-willow scrub; 1 ♀; host unknown. Palaearctic element.
102. ! *Pimpla nigricoxa* OEHlke, 1967. Bucheben (1250 m) 24 IV 1984. Forest glade; 1 ♀; M. DYLEWSKA leg. Salezen Htt. (1700 m) 1 VIII 1985. Spruce forest; 1 ♀; host unknown. Euro-Siberian element.
103. *Pimpla spuria* (GRAVENHORST, 1829). Krumltal (1700 m) 12 VIII 1985. Larch forest; 1 ♀; Geisbachatal (950 m) 23 VIII 1985. Meadow: 3 ♀; Grubereck (2150 m) 16 VIII 1985. High-mountain grassland; 1 ♂; host unknown. Euro-Caucasian element.
104. *Pimpla turionellae* (LINNAEUS, 1758). Angertal (1350 m) 3 IX 1985. Spruce forest; 2 ♀; Bucheben (1000 m) 10 VIII 1985. Alder-willow scrub; 1 ♂; slope of Ritterkopf (2000 m) 11 VIII 1985. Larch forest; 1 ♂; hosts: *Tortricidae*, *Choreutidae*, *Yponomeutidae*, *Geometridae*, *Thaumetopoeidae*, *Lymantriidae*. Palaearctic element.
105. *Theronia atalantae* (PODA, 1761). Bucheben (950 m) 7 VIII 1986. Alder-willow scrub; 1 ♀; hosts: *Ichneumonidae*, *Tachinidae*. Euro-Caucasian element.
106. *Theronia laevigata* (TSCHEK, 1868). Feldereralm (1650 m) 8 VII 1986. Forest glade; 2 ♂; host unknown. Euro-Siberian element.
107. *Perithous albicinctus* (GRAVENHORST, 1829). Kötschachtal (1400 m) 1 VI 1984. Spruce forest; 1 ♀; hosts: *Sphecidae*. Palaearctic element.

108. *Perithous divinator* (ROSSI, 1859). Bucheben (1050 m) 12 VIII 1985. Alder-willow scrub; 1 ♀; Grubereck (2150 m) 16 VIII 1985. High-mountain grassland; 1 ♂; hosts; *Chrysidae*, *Eumenidae*, *Sphecidae*. Holarctic element.
109. *Perithous mediator* (FABRICIUS, 1804). Seidwinktal (1000 m) 12 VII 1985. Alder-willow scrub; 1 ♀; slope of Stubnerkogel (1700 m) 19 VII 1984. Larch forest; 2 ♂; hosts: *Eumenidae*, *Megachilidae*. Montane element.
110. *Perithous septemcinctorius* (THUNBERG, 1824). Feldereralm (1650 m) 3 VIII 1985. Spruce forest; 1 ♀; hosts; *Sphecidae*. Euro-Caucasian element.
111. *Perithous speculator* HAUPT, 1954. Kötschachtal (1000 m) 24 VII 1985. Alder-willow scrub; 1 ♂; host unknown. Palaearctic element.
112. ! *Delomerista laevis* (GRAVENHORST, 1829). Angertal (1350 m) 3 IX 1985. Spruce forest; 1 ♀; Bucheben (1050 m) 8 VIII 1985. Alder-willow scrub; 1 ♀; host unknown. Boreal-montane element.
113. ! *Delomerista longicauda* KASPARYAN, 1977. Grubereck (2150 m) 16 VIII 1985. High-mountain grassland; 1 ♀; A. KOSIOR leg. Host unknown. Montane element.
114. *Delomerista mandibularis* (GRAVENHORST, 1829). Bucheben (1000 m) 23 VII 1985. Alder-willow scrub; 1 ♀; hosts: *Tenthredinidae*. Boreal-montane element.
115. *Delomerista pfankuchi* BRAUNS, 1905. Kitzstein (1300 m) 26 VII 1985. Spruce forest; 1 ♂; hosts: *Diprionidae*. Holarctic element.
116. *Delemerista strandi* ULRICH, 1954. Durchgangalm (1700 m) 13 VIII 1985. Larch forest; 1 ♂; host unknown. Holarctic element.
117. *Atractogaster semisculptus* (KRIECHBAUMER, 1872). Bucheben (1000 m) 10 VII 1985. Alder-willow scrub; 1 ♂; A. KOSIOR leg. Hosts: *Buprestidae*, *Cerambycidae*. Palaearctic element.
118. *Diacritus acidulatus* (SNELLEN VAN VOLLENHOVEN, 1901). Bucheben (1050 m) 30 VIII 1985. Pasture; 1 ♂; host unknown. Euro-Caucasian element.
119. *Poemenia brachyura* HOLMGREN, 1860. Slope of Stubnerkogel (1800 m) 19 VI 1984. Larch forest; 1 ♂; Kötschachtal (1100 m) 25 VII 1985. Meadow; 1 ♂; hosts: *Sphecidae*. Euro-Asiatic element.
120. *Poemenia collaris* (HAUPT, 1917). Slope of Ritterlopf (1900 m) 10 VIII 1985. Larch forest; 1 ♂; Bucheben (1200 m) 9 VI 1984. Spruce forest; 1 ♂; host unknown. European element.
121. *Poemenia hectica* (GRAVENHORST, 1829). Angertal (1250 m) 30 VII 1985. Meadow; 2 ♀; host unknown. European element.
122. *Poemenia notata* HOLMGREN, 1859. Badgastein (1050 m) 23 VI 1984. Pasture; 2 ♀; hosts: *Tortricidae*. European element.
123. *Deuteroxorides albatarsus* (GRAVENHORST, 1829). Slope of Ritterkopf (2350 m) 9 VIII 1985. High-mountain grassland; 1 ♀; Bucheben (1000 m) 27 VI 1984. Alder-willow scrub; 1 ♀; hosts: *Cerambycidae*. Palaearctic element.
124. *Podoschistus scutellaris* DESVIGNES, 1854. Bucheben (1050 m) 9 VI 1984. Pasture; 2 ♀; host unknown. European element.

125. *Neoxorides collaris* (GRAVENHORST, 1829). Bucheben (1150 m) 8 VII 1986. Forest glade; 1 ♂; hosts: *Cerambycidae*. Palaearctic element.
126. *Noxorides montanus* OEHlke, 1967. Kötschachatal (1200 m) 29 VII 1986. Spruce forest; 1 ♂; Angertal (1550 m) 9 VII 1985. Spruce forest; 1 ♀; Angertal (1550 m) 9 VII 1985. Spruce forest; 1 ♀; host unknown. Montane element.
127. ! *Neoxorides varipes* (HOLMGREN, 1880). Bucheben (1050 m) 8 VII 1986. Meadow; 1 ♀; host unknown. European element.
128. *Pseudorhyssa maculicoris* (KRIECHBAUMER, 1802). Rauris (1200 m) 19 VI 1984. Spruce forest; 5 ♀ 4 ♂; Angertal (1550 m) 5 VII 1985. Spruce forest; 1 ♀; hosts: *Siricidae*, *Xiphydriidae*; cleptoparasite *Rhyssini*. Holarctic element.
129. *Pseudorhyssa alpestris* (HOLMGREN, 1860). Krumltal (1250 m) 12 VI 1986. Spruce forest; 6 ♀ 2 ♂; Angertal (1500 m) 4 VIII 1985. Spruce forest; 1 ♀; hosts: *Siricidae*, *Xiphydriidae*; cleptoparasite *Rhyssini*. Holarctic element.
130. *Rhyssa amoena* GRAVENHORST, 1829. Feldereralm (1700 m) 2 VII 1984. Spruce forest; 10 ♀ 8 ♂; Badgastein (1000 m) 5 IX 1984. Spruce forest; 3 ♀; hosts: *Siricidae*, *Cerambycidae*. Palaearctic element.
131. *Rhyssa persuasoria* (LINNAEUS, 1758). Angertal (1550 m) 12 VI 1984. Spruce forest; 6 ♀ 7 ♂; slope of Edlenkogel (2150 m) 27 VI 1984. Larch forest; 7 ♀ 4 ♂; Bucheben (1250 m) 8 VIII 1986. Spruce forest; 9 ♀ 6 ♂; hosts: *Siricidae*, *Cerambycidae*. Holarctic element.
132. *Rhyssella approximator* (FABRICIUS, 1793). Durchgangalm (1700 m) 13 VIII 1985. Larch forest; 4 ♀; Bucheben (1200 m) 9 VI 1984. Spruce forest; 2 ♀; hosts: *Xiphydriidae*, *Siricidae*. Palaearctic element.
133. *Rhyssella oblitterata* (GRAVENHORST, 1929). Salezen Htt. (1550 m) 2 VIII 1985. Spruce forest; 3 ♀; Bucheben (1200 m) 10 VIII 1986. Spruce forest; 1 ♂; hosts: *Xiphydriidae*, *Siricidae*. European element.
134. *Megarhyssa emarginatoria* (THUNBERG, 1922). Bucheben (1200 m) 2 VII 1984. Forest glade; 4 ♀; hosts: *Siricidae*. Subpontic element.
135. *Megarhyssa gigas* (LAXMANN, 1770). Seidlwinklatal (1250 m) 9 VIII 1985. Spruce forest; 1 ♀; hosts: *Tremex fuscicornis* F., *T. magus* F. Palaearctic element.
136. *Megarhyssa perlata* (CHRIST, 1791). Bucheben (1250 m) 11 VII 1985. Forest glade; 1 ♀; hosts: *Tremex fuscicornis* F., *T. magus* F. Euro-Asiatic element.
137. *Megarhyssa superba* (SCHRANK, 1781). Poserhöhe (1600 m) 20 VI 1984. Spruce forest; 1 ♂; Kötschachatal (1200 m) 28 VII 1986. Spruce forest; 1 ♀; hosts: *Tremex fuscicornis* F., *T. magus* F., *Cerambycidae*. Palaearctic element.

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## STRESZCZENIE

Badania prowadzono w latach 1984—1986 w dolinach Fusch, Rauris i Ga-stein oraz na stokach Alp Salzburskich do wysokości 2350 m n.p.m. Odłowi-ono 137 gatunków (332 okazy) gąsienicznikowatych z podrodziny Ephialtinae, w tym 16 nowych dla entomofauny Austrii. W liście gatunków zaznaczono je wykryznikiem „!”. Parazytidy wykazane na badanym obszarze zaliczono do 11 grup zoogeograficznych. Najliczniejszą grupę stanowiły elementy pa-learktyczne, gdy elementy subpontomediterraneńskie i submediterraneńskie reprezentowane były zaledwie przez pojedyncze gatunki. Przedstawicieli po-zostałych podrodzin omówią następne prace.