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Beetles (Coleoptera) of the Rogów region. Part V – bark and ambrosia beetles (Curculionidae, Platypodinae and Scolytinae)

Jerzy Borowski^a, Tomasz Mokrzycki^b

Department of Forest Protection and Ecology, Warsaw University of Life Sciences, SGGW,
ul. Nowoursynowska 159/34, 02-776 Warsaw, Poland

^{a,b}E-mail address: jerzy_borowski@sggw.pl , tomasz_mokrzycki@sggw.pl

ABSTRACT

In the present, the fifth part of the series titled “Beetles (Coleoptera) of the Rogów region” presents two subfamilies, bark beetles (Curculionidae, Scolytinae) and ambrosia beetles (Curculionidae, Platypodinae), as one of the better-known subfamilies of weevils beetles (Curculionidae) occurring in the Rogów area. The faunistic data of presented species enriched by bionomical information.

Keywords: Insecta, Coleoptera, Curculionidae, Scolytinae, Platypodinae, Rogów region, faunistic data, bionomy

1. INTRODUCTION

Until now from the Rogów region has been reported 45 species of bark beetles (Nunberg 1955, Dominik 1956, Wiąckowski 1957a, 1957b, Kinelski 1958, Wiąckowski & Nunberg 1958, Nunberg 1960, Dominik 1966a, 1966b, 1972, 1977, 1993, Mokrzycki & Wanat 1995, Mokrzycki 2011, Mokrzycki & *al.* 2011, Piętka 2013, Borowski & *al.* 2013,

Byk & al. 2013 and Rutkiewicz & al. 2013). Till now no one species of ambrosia beetles were found.

The following is a list of the species of bark and ambrosia beetles that occur in the Rogów region. Almost all species have been collected by the authors, and a small part of specimens comes from the collection of J. Dominik, S. Kinelski, S. Mazur, J. Miszkiel, A. Nowak, J. Sawoniewicz and A. Szujecki. Specimens of evidence are in the collection of Department of Forest Protection and Ecology in Rogów and Warsaw. Names are taken from the "Catalogue of Palearctic Coleoptera" (Knížek 2011). All species have been identified or verified by the authors of the work.

2. RESULTS – REVIEW OF THE SPECIES

2. 1. Curculionidae: Scolytinae

2. 1. 1. *Hylastes angustatus* (Herbst, 1794)

- Rogów, UTM: DC24, VI.1961, 1 ex., leg. J. Dominik; V.1967, 1 ex., trap on *Pinus sylvestris* (L.), leg. S. Mazur; 06.VII.1984, 5 exx., leg. T. Mokrzycki;
- Rogów, dendrological garden, UTM: DC24, 20.V.1995, 1 ex., on the wall of building, leg. J. Borowski; 29.V.1997, 4 exx., under bark of *Pinus peuce* Griseb., leg. J. Borowski; 20.VI.1997, 1 ex., under bark of *Pinus ponderosa* Doug., leg. J. Borowski;
- Głuchów, UTM: DC33, 18.V.2003, 4 exx., sandy fossa in the coniferous forest, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b). A common species found in various forests, but prefers coniferous forests with pines (*Pinus* spp.).

2. 1. 2. *Hylastes ater* (Paykull, 1800)

- Rogów, UTM: DC24, 12.V.1953, 2 exx., on *Pinus* sp. leg. J. Dominik; 21.X.1954, 1 ex., mixed coniferous forest, leg. A. Szujecki; 12.V.1993, 2 exx., leg. T. Mokrzycki;
- Rogów, dendrological garden, UTM: DC24, VIII.1995, 1 ex., Moericke' trap, leg. J. Sawoniewicz;
- Rogów, „Doliska” range, UTM DC:24, 26.IV.1995, 1 ex., clear cut forest, leg. J. Borowski; 29.V.1998, 1 ex., under lying a piece of Scot pine, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 24.IV.1995, 1 ex., clear cut forest, leg. J. Borowski; 29.V.1998, 1 ex., under lying a piece of Scot pine, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b) and next by Byk & al. 2013. A common species found in various forests, but prefers coniferous forests with pines (*Pinus* spp.).

2. 1. 3. *Hylastes attenuatus* Erichson, 1836

- Rogów, UTM: DC24, 25.V.1954, 1 ex., leg. M. Nunberg; 29.V.1958, 1 ex., leg. J. Dominik;
- Głuchów, UTM: DC33, 20.VI.2003, 6 exx., sandy fossa in the coniferous forest, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b). A quite common species especially in coniferous forests with pines (*Pinus* spp.).

2. 1. 4. *Hylastes cunicularius* Erichson, 1836

- Rogów, UTM: DC24, 9.VII.1958, 1 ex., leg. J. Dominik; 1.VI.1967, 1 ex., leg. S. Kinelski;
- Rogów, dendrological garden, UTM: DC24, 22.VI.1996, 1 ex., netting, leg. J. Borowski; 09.VI.1997, 1 ex., on *Abies sachalinensis* Schmidt; 03.VI.1999, 1 ex. on the ground, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 15.IV-05.V, 1 ex., and 05.V-05.VI. 2001, 1 ex., window trap on tree, leg. J. Borowski.

In the Rogów region quite common species in various forests with different conifers.

2. 1. 5. *Hylastes opacus* Erichson, 1836

- Rogów, UTM: DC24, 05.V.1955, 2 exx., fresh pine stump, leg. A. Szujecki; 29.V.1958, 5 exx, leg. J. Dominik; 23.V.1992, 2 exx., leg. T. Mokrzycki;
- Rogów, dendrological garden, UTM: DC24, 06.V.1997, 1 ex., and 29.V.1997, 3 exx., under bark of *Pinus peuce* Griseb., leg. J. Borowski;
- Głuchów, UTM: DC33, 18.V.2003, 5 exx., sandy fossa in the coniferous forest, leg. J. Borowski.

For the first time in the Rogów region shown by Wiackowski (1957b). In the Rogów region most frequently collected species from the *Hylastes* Erichson genus.

2. 1. 6. *Hylurgops palliatus* (Gyllenhal, 1813)

- Rogów, dendrological garden, UTM: DC24, 13.VII.1995, 1 ex., and 30.VIII.1995, 2 exx., Moericke’ trap, leg. J. Sawoniewicz; 03.IV.1997, 1 ex., indoor the building, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 24.IV.1995, 1 ex., clear cut forest, leg. J. Borowski; 02.IV.1999, 1 ex., in flight, leg. J. Borowski.

A common species in the Rogów region. For the first time in the Rogów region shown by Wiackowski (1957b) and next by Byk & al. 2013. The species lives on various conifers but prefers pines and spruces.

2. 1. 7. *Hylesinus crenatus* (Fabricius, 1787)

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 03.VI.2012, 2 exx., under bark of ash, leg. J. Borowski.

A very rare species in the Rogów region. Both specimens were collected in the mixed forest under bark of a dead ash.

2. 1. 8. *Hylesinus toranio* (D’Anthoine, 1788)

- Rogów, UTM: DC24, 27.VII.1997, under bark of ash branch, leg. J. Borowski.

Quite rare species in the Rogów region. The first and new data on this species in the Rogów region shown by Mokrzycki & al. 2011. In the collection of Department of Forest Protection and Ecology in Rogów exist 10 exx., from the following locality:

2. 1. 9. *Hylesinus varius* (Fabricius, 1775)

- Rogów, UTM: DC24, V.1960, 2 exx., leg. J. Dominik; 20.VII.1998, 5 exx., under bark of ash, leg. J. Borowski; 28.VII.2011, 1 ex., indoor the building, leg. J. Borowski;

- Rogów, dendrological garden, UTM: DC24, 26.V.1997, 1 ex., under bark of ash, leg. J. Borowski;
- Rogów, „Górki” range, UTM: DC24, 12.IV.1999, 1 ex., under bark of ash stump, leg. J. Borowski.

A very common species found in various environments with ashes.

2. 1. 10. *Dendroctonus micans* (Kugelann, 1794)

- Rogów, UTM: DC24, 1.VI.1956, 4 exx., *Picea sitchensis* (Bong.), leg. M. Nunberg; 1970, 10 exx., leg. J. Dominik;
- Rogów, dendrological garden, UTM: DC24, 28.VI.1996, 1 ex., under bark of *Picea orientalis* (L.), leg. J. Borowski; 29.V.1997, 3 exx., under bark of *Picea engelmannii* Parry, leg. J. Borowski;
- Głuchów, UTM: DC33, 20.VI.2013, 1 ex., under bark of spruce, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966b). A quite rare species found in various forests, under bark of spruces (*Picea* spp.).

2. 1. 11. *Hylurgus ligniperda* (Fabricius, 1787)

- Rogów, UTM: DC24, 23.V.1992, 2 exx., leg. T. Mokrzycki;
- Rogów, dendrological garden, UTM: DC24, 06.VI.1997, 2 exx., and 18.VI.1997, 2 exx., under bark of pine stump, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 20.X.1997, 3 exx., under bark of pine stump, leg. J. Borowski; 30.IV.1998, 2 exx., under bark of pine stump, leg. J. Borowski.

A quite common species in the Rogów region. For the first time shown by Wiąckowski (1957b).

2. 1. 12. *Tomicus minor* (Hartig, 1834)

- Rogów, „Zacywilki” range, UTM: DC24, 25.VI.1997, 3 exx., under bark of Scots pine, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 25.VI.1997, 1 ex., under bark of Scots pine, leg. J. Borowski;
- Rogów, dendrological garden, UTM: DC24, 25.V.1997, 1 ex., under bark of *Pinus nigra* Arn., leg. J. Borowski; 02.VII.1997, 1 ex., under bark of Scots pine, leg. J. Borowski.

A common species found under thin bark of various pines. For the first time in the Rogów region shown by Dominik (1966b).

2. 1. 13. *Tomicus piniperda* (Linnaeus, 1758)

- Rogów, UTM: DC24, VI.1959, 1 ex., leg. J. Dominik;
- Rogów, dendrological garden, UTM: DC24, 05.V.1993, 4 exx., leg. T. Mokrzycki; 25.IV.1995, 2 exx., in flight, leg. J. Borowski; 29.IV.1997, 1 ex., under bark of *Pinus peuce* Griseb., leg. J. Borowski; 09.VI.1997, 1 ex., under bark of pine, leg. J. Borowski;
- Rogów, „Zacywilki” range, UTM: DC24, 25.VI.1997, 2 exx., under bark of Scots pine, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 25.VI.1997, 2 exx., under bark of Scots pine, leg. J. Borowski.

For the first time shown by Wiąckowski (1957b). A very common species in the Rogów region. The species is usually found under thick bark of various pines.

2. 1. 14. *Xylechinus pilosus* (Ratzeburg, 1837)

- Rogów, UTM: DC24, 07.IV.1954, 2 exx., leg. S. Kinelski;
- Rogów, dendrological garden, UTM: DC24, 03.VI.1999, 1 ex., Moericke' trap, under old spruces, leg. J. Sawoniewicz; 1-31.V.2009, 1 ex., window trap, leg. J. Borowski.

A very rare species and occasionally collected in the Rogów region. The species lives under bark of spruce trunks.

2. 1. 15. *Phloeosinus thujae* (Perris, 1855)

- Rogów, dendrological garden, UTM: DC24, 02.VII.1995, 1 ex., under bark of *Juniperus virginiana* L., leg. J. Borowski; 02.VII.1995, 8 exx., under bark of *Cupressus nootkatensis* (D. Don), leg. J. Borowski.

A quite common species in the Rogów region. *Ph. thujae* lives under bark of various species of Cupressaceae.

2. 1. 16. *Phloeotribus spinulosus* (Rey, 1883)

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 21.IV.1999, 1 ex., in flight, leg. A. Nowak; 04.VI.2013, 1 ex., under bark of young spruce, leg. J. Borowski.

A very rare species in the Rogów region. The species lives under bark of young spruce trunks.

2. 1. 17. *Polygraphus poligraphus* (Linnaeus, 1758)

- Rogów, UTM: DC24, 27.IV.1957, 3 exx., *Picea* sp., leg. J. Dominik; IV.1967, 2 exx., leg. S. Mazur;
- Rogów, dendrological garden, UTM: DC24, 07.II.1997, 1 ex., under bark of *Picea glauca* (Moench), leg. J. Borowski; 07.II.1997, 1 ex., under bark of young Norway spruce, leg. J. Borowski; 20.XI.1999, 3 exx., under bark of spruce, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966b). A common species in the Rogów region. The species lives under bark of various spruces.

2. 1. 18. *Pityophthorus carniolicus* Wichmann, 1910

- Gutkowice, UTM: DC33, 26.VI.1998, 1 ex., and 22.VII.1998, 1ex., netting under pines, leg. J. Borowski.

The first data on this species in Poland shown by Wanat & Mokrzycki (2005) without any precise localities. Mokrzycki & al. (2011) shown four localities among them the Rogów region. The next data shown Byk & al. (2013); the first author has collected 5 exx., at the Gutkowice forest in 2010. *P. carniolicus* is a quite rare species in the Rogów forests and lives under bark of thin and terminal shoots of pines.

2. 1. 19. *Pityophthorus exsculptus* (Ratzeburg, 1837)

- Rogów, dendrological garden, UTM: DC24, 23.III.1999, 1 ex., under bark of thick branch of Norway spruce, leg. J. Borowski; 20.IV.2002, 3 exx., under bark of thick branch of Norway spruce, leg. J. Borowski.

The first and new data on this species in the Rogów region shown by Nunberg (1960). A rare species in the Rogów region. The species occurs under bark of thick branches of old spruces.

2. 1. 20. *Pityophthorus lichtensteinii* (Ratzeburg, 1837)

- Rogów, UTM: DC24, 03.V.1954, 5 exx., under bark of Scots pine, leg. M. Nunberg & S. Kinelski;

- Rogów, dendrological garden, UTM: DC24, 13.IX.2000, 1 ex., Moericke' trap, leg. J. Sawoniewicz; 05.VI-05.VII.2001, 2 exx., window trap, mixed forest, leg. J. Borowski.

A rare species in the Rogów region, lives under bark of branches of various pines.

2. 1. 21. *Pityophthorus micrographus* (Linnaeus, 1785)

A very rare species in Poland, occurs in two geographical ranges of Norway spruce. The first and new data on this species in the Rogów region shown by Nunberg (1955). Since this time no one information on this species has been recorded. Species should be considered extinct in the Rogów region.

2. 1. 22. *Pityophthorus morosovi* Spessivtsev, 1926

- Rogów, dendrological garden, UTM: DC24, 24.II.1997, 8 exx., under bark of one-year-old, thin shoots of *Picea omorika* (Pančić), leg. J. Borowski.

A very rare species in Poland. Through 20 years of research in the area and use of various traps, caught once. 8 specimens of this species were caught under bark of thin and terminal shoots of Serbian spruce.

2. 1. 23. *Pityophthorus pityographus* (Ratzeburg, 1837)

- Rogów, UTM: DC24, 30.III.1957, 3 exx., leg. J. Dominik; 05.IV.1991, 12 exx., leg. T. Mokrzycki;

- Rogów, dendrological garden, UTM: DC24, 31.I.1997, 3 exx., under bark of thin branch of Scots pine, leg. J. Borowski; 31.I.1997, 3 exx., under bark of *Abies sachalinensis* Schmidt, leg. J. Borowski; 07.II.1997, 1 ex., under bark of Norway spruce, leg. J. Borowski; 11.II.1997, 1 ex., under bark of Scots pine, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966b). A very common species in the Rogów forests. *P. pityographus* is a polyphagous species, lives under thin bark of various conifers.

2. 1. 24. *Pityophthorus traegardhi* Spessivtsev, 1921

A very rare species in Poland, occurs in two geographical ranges of Norway spruce. The first and new data on this species in the Rogów region shown by Nunberg (1955) and later by Kinelski (1958). Since this time no one information on this species has been recorded. Species should be considered extinct in the Rogów region.

2. 1. 25. *Cryphalus asperatus* (Gyllenhal, 1813)

- Rogów, dendrological garden, UTM: DC24, 02.VII.1995, 1 ex., under bark of thin branch of *Cupressus nootkatensis* (D. Don), leg. J. Borowski; 11.II.1997, 3 exx., and 13.II.1997, 4 exx., under bark of thin branch of *Picea retroflexa* Mast., leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1977). A common species in the Rogów region, usually collected under thin bark of spruces and firs.

2. 1. 26. *Cryphalus intermedius* Ferrari, 1867

- Rogów, dendrological garden, UTM: DC24, 18.VI.1997, 6 exx., under bark of *Larix sibirica* Ledeb., leg. J. Borowski;

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 20.IV.1999, 2 exx., under bark of larch, leg. J. Borowski.

The first data on this species in Rogów region shown by Mokrzycki & al. (2011). A common species lives under bark of various species of *Larix* Mill. genus.

2. 1. 27. *Cryphalus piceae* (Ratzeburg, 1837)

- Rogów, UTM: DC24, 18.VII.1970, 2 exx., leg. S. Mazur; V.1972, 5 exx., leg. J. Dominik;

- Rogów, dendrological garden, UTM: DC24, 29.VI.1997, 7 exx., and 02.VII.1997, 1 ex., under bark of *Abies nordmanniana* (Steven), leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1977) and next by Mokrzycki (2011). A common species in the Rogów region, usually collected under thin bark of firs.

2. 1. 28. *Ernoporicus caucasicus* (Lindemann, 1876)

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 02.III.2000, 8 exx., under bark of linden branch, leg. J. Borowski.

A rare species in the Rogów region. All specimens were collected under bark of thick linden branch lying on the ground.

2. 1. 29. *Ernoporicus fagi* (Fabricius, 1798)

- Lipce, UTM: DC25, 20.IV.2002, 1 ex., under bark of beech, leg. J. Borowski.

A quite rare species in the Rogów region. One specimen of this species was collected under bark of thick beech branch lying on the ground.

2. 1. 30. *Ernoporus tiliae* (Panzer, 1793)

- Rogów, UTM: DC24, 30.VI.1995, 2 exx., under bark of linden, leg. J. Borowski;

- Rogów, dendrological garden, UTM: DC24, 20.I.2000, 2 exx., under bark of linden branch, leg. J. Borowski.

For the first time in the Rogów region shown by Nunberg & Wiąckowski (1958). A very common species in the Rogów region lives under bark of linden branches in various environments.

2. 1. 31. *Trypophloeus binodulus* (Ratzeburg, 1837)

- Rogów, dendrological garden, UTM: DC24, 06.V.1994, 10 exx., leg. T. Mokrzycki;
- Rogów, „Doliska” range, UTM: DC24, 26.IV.1995, 4 exx., under bark of aspen branches, leg. J. Borowski.

A quite rare species in the Rogów region lives under bark of branches of various poplars.

2. 1. 32. *Trypophloeus granulatus* (Ratzeburg, 1837)

- Rogów, „Doliska” range, UTM: DC24, 20.XI.1999, 4 exx., and 21.XI.1999, 2 ex., under bark of fuel timber of aspen, leg. J. Borowski.

A quite common species in the Rogów region lives under bark of stems of various poplars.

2. 1. 33. *Crypturgus cinereus* (Herbst, 1794)

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 25.V.1997, 8 exx., in galleries of *Ips sexdentatus* (Boern.), leg. J. Borowski.

A common species in the Rogów forests. For the first time in the Rogów region shown by Byk & al. (2013).

2. 1. 34. *Crypturgus hispidulus* (Thomson, 1870)

- Rogów, dendrological garden, UTM: DC24, 29.V.1997, 4 exx., in galleries of *Ernobius mollis* (L.) (Coleoptera, Ptinidae), under bark of spruce, leg. J. Borowski.

A common species in the Rogów region. The species lives under spruce bark in galleries of other bark beetles.

2. 1. 35. *Crypturgus pusillus* (Gyllenhal, 1813)

- Rogów, dendrological garden, UTM: DC24, 03.XI.1999, 3 exx., under bark of Norway spruce, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b). A common species in the Rogów region. The species lives especially under spruce bark in galleries of other bark beetles, sometimes together with *C. hispidulus*.

2. 1. 36. *Dryocoetes alni* (Georg, 1856)

- Rogów, UTM: DC24, V.1970, 1 ex., leg. J. Miszkiel;
- Rogów, dendrological garden, UTM: DC24, 01.X.1997, 7 exx., under bark of alder, leg. J. Borowski; 05.V-05.VI.2001, 1 ex., window trap in the mixed forest, leg. J. Borowski.

For the first time in the Rogów region shown by Mokrzycki & al. (2011). A common species, occurs under bark of *Alnus* Mill., *Corylus* L. and *Carpinus* L. In the Rogów region most frequently found under bark of dead hazel.

2. 1. 37. *Dryocoetes autographus* (Ratzeburg, 1837)

- Rogów, UTM: DC24, X.1966, 3 exx., *Pinus strobus* L., leg. J. Dominik; 31.VII.1967, 3 exx., *Picea pungens* Engelm., leg. S. Mazur;

- Rogów, „Zacywilki” range, UTM: DC24, 14.VII.1995, 2 exx., Moericke’ trap under spruces, leg. J. Sawoniewicz;
- Rogów, dendrological garden, UTM: DC24, 30.VIII.1995, 1 ex., Moericke’ trap, leg. J. Sawoniewicz; 24.II.1997, 1 ex., under bark of branch of *Picea retroflexa* Mest., leg. J. Borowski; 29.V.1997, 2 exx., under bark of *Pinus sibirica* Du Tour, leg. J. Borowski; 06.VI.1997, 1 ex., in flight, leg. J. Borowski; 18.VI.1997, 1 ex., under bark of *Picea retroflexa* Mest., leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1972). A common species in the Rogów region lives under bark of conifers especially spruces.

2. 1. 38. *Dryocoetes villosus* (Fabricius, 1792)

- Rogów, dendrological garden, UTM: DC24, 01-30.VI.2009, 1 ex., window trap in a mixed forest, leg. J. Borowski.

A very rare species in the Rogów area. During more than 20 years of researches in this area and using of various traps, only 1 specimen of this species was collected. The species lives under thick bark of oaks.

2. 1. 39. *Lymantor aceris* (Lindemann, 1875)

For the first time in the Rogów region shown by Mokrzycki & al. (2011). A rare species in the Rogów region. 14 specimens of this species were caught under bark of *Padus avium* Mill. The species lives under dead and thin shoots of various trees and shrubs of Rosaceae family.

2. 1. 40. *Lymantor coryli* (Perris, 1855)

- Rogów, UTM: DC24, 27.V.2012, 3 exx., under bark of branch of dead *Frangula alnus* Mill., leg. J. Borowski; 16.IV.2012, 1 ex., under bark of *Frangula alnus* Mill., leg. J. Borowski.

For the first time in the Rogów region shown by Mokrzycki & al. (2011). A rare species in the Rogów region. *L. coryli* lives under dead branches and stems of *Frangula alnus* especially on sunny localities.

2. 1. 41. *Ips acuminatus* (Gyllenhal, 1827)

- Rogów, UTM: DC24, 26.V.1953, 1 ex., leg. J. Dominik; XII.1965, 3 exx., ex. Scots pine, cult. S. Kinelski;
- Rogów, dendrological garden, UTM: DC24, 03.VI.2006, 4 exx., under bark of Scots pine, leg. J. Borowski.

A common species in the Rogów region, lives under bark of thick and upper branches of old pines, on sunny localities.

2. 1. 42. *Ips amitinus* (Eichhoff, 1872)

- Rogów, UTM: DC24, 25.VIII.1948, 1 ex., leg. J. Dominik;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 25.VI.1997, 1 ex., and 06.VI.1997, 1 ex., under thin bark of steam of Scots pine, leg. J. Borowski;
- Rogów, dendrological garden, UTM: DC24, 11.IX.2000, 6 exx., under thin bark of steam of *Pinus sibirica* Du Tour, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966b). A quite common species lives under thin bark of various conifers, especially pines and spruces.

2. 1. 43. *Ips duplicatus* (Sahlberg, 1836)

The first and new data on this species in the Rogów region are given by Wiąckowski (1957a) and later by Kinelski (1958). Since this time no one information on this species has been recorded. Species should be considered extinct in the Rogów region.

2. 1. 44. *Ips sexdentatus* (Boerner, 1766)

- Rogów, UTM: DC24, 20.V.1967, 1 ex., leg. S. Mazur; 05.V.1993., 4 exx., leg. T. Mokrzycki;
- Rogów, dendrological garden, UTM: DC24, 25.V.1997, 8 exx., under thick bark of Scots pine, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b). A common species in the Rogów region, especially under bark of lying old pines.

2. 1. 45. *Ips typographus* (Linnaeus, 1758)

- Rogów, dendrological garden, UTM: DC24, 07.V.1994, 1 ex., leg. T. Mokrzycki; 25.VI.1997, 6 exx., and 03.VII.1997, 2 exx., under bark of spruce fuel timber, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966b). Occasionally a common species in the larger spruce stands.

2. 1. 46. *Orthotomicus laricis* (Fabricius, 1792)

- Rogów, UTM: DC24, VI.1953, 4 exx., leg. J. Dominik; X.1966, 3 exx., *Pinus strobus* L., leg. J. Dominik; 28.VII.1968, 2 exx., *Pinus sylvestris* (L.), leg. S. Mazur; 05.V.1993, 8 exx., leg. T. Mokrzycki;
- Rogów, dendrological garden, UTM: DC24, 06.VI.1997, 1 ex., 18.VI.1997, 7 exx., 29.VI.1997, 1 ex., 03.VII.1997, 1 ex., under bark of pine stump, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 09.VI.1997, 1 ex., under thin bark of pine, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b). A very common species in the Rogów region lives under bark of various pines.

2. 1. 47. *Orthotomicus proximus* (Eichhoff, 1868)

- Rogów, dendrological garden, UTM: DC24, 22.V.1997, 1 ex., under bark of spruce, leg. J. Borowski; 29.V.1997, 1 ex., under bark of *Pinus peuce* Griseb., leg. J. Borowski; 06.VI.1997, 2 exx., under bark of pine stump, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 06.VI.1997, 3 exx., under bark of Scots pine, leg. J. Borowski.

A quite common species in the Rogów region. The species lives under thick bark of conifers, especially pines.

2. 1. 48. *Orthotomicus suturalis* (Gyllenhal, 1827)

- Rogów, dendrological garden, UTM: DC24, 18.VI.1997, 2 exx., under bark of pine, leg. J. Borowski; 27.VI.1999, 1 ex., under bark of *Pinus attenuata* Lemmon, leg. J. Borowski;
- Rogów, „Doliska” range, UTM: DC24, 18.X.1999, 1 ex., under bark of dead Scots pine, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957b). A quite rare species lives under bark of young pines.

2. 1. 49. *Pityogenes bidentatus* (Herbst, 1784)

- Rogów, dendrological garden, UTM: DC24, 31.I.1997, 5 exx., and 11.II.1997, 3 exx., under bark of branch of Scots pine, leg. J. Borowski.

For the first time in the Rogów region shown by Wiąckowski (1957a). One of the commonest bark beetles in Rogów forests. The species lives under thin bark of various pines.

2. 1. 50. *Pityogenes chalcographus* (Herbst, 1784)

- Rogów, dendrological garden, UTM: DC24, 22.V.1997, 8 exx., under spruce bark, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966b). A quite common species lives under bark of various spruces, usually together with *Ips typographus* (L.).

2. 1. 51. *Pityogenes quadridens* (Hartig, 1834)

- Rogów, UTM: DC24, 05.V.1955, 5 exx., leg. A. Szujewski; XII.1965, 1 ex., under bark of Scots pine, leg. S. Kinelski; 31.VII.1967, 2 exx., under bark of *Pinus nigra* Arn., leg. S. Mazur; 03.IX.1993, 1 ex., Moericke' trap, leg. J. Sawoniewicz.

For the first time in the Rogów region shown by Dominik (1966b). A rare species in Rogów forests lives under thin bark of upper branches of various pines.

2. 1. 52. *Pityogenes trepanatus* (Nördlinger, 1848)

- Rogów, UTM: DC24, 27.VIII.1992, 1 ex., Moericke' trap in upper part of fir, leg. J. Sawoniewicz;
- Rogów, „Doliska” range, UTM: DC24, 13.VII.1994, 4 exx., Moericke' trap in upper part of fir, leg. J. Sawoniewicz;
- Rogów, „Zacywilki” range, UTM: DC24, 29.VII.1994, 1 ex., Moericke' trap in upper part of old fir, leg. J. Sawoniewicz.

A rare species in the Rogów region. All specimens were collected in the forest canopy.

2. 1. 53. *Pityokteines spinidens* (Reitter, 1895)

- Rogów, dendrological garden, UTM: DC24, 24.III.2003, 8 exx., under thick bark of *Abies grandis* Dougl. steam, leg. J. Borowski.

A common species in the Rogów region. For the first time in the Rogów region shown by Mokrzycki (2011). The species was introduced to Rogów about 20 years ago and now, from time to time, is the pest of old fir stands.

2. 1. 54. *Scolytus carpini* (Ratzeburg, 1837)

- Rogów, dendrological garden, UTM: DC24, 10.VII.1999, 4 exx., under bark of hornbeam, leg. J. Borowski;
- Rogów, „Doliska” range, UTM: DC24, 06.VI.2012, 1 ex., under bark of steam of hazel, leg. J. Borowski.

A quite common species in the Rogów region lives under bark of *Carpinus* L., and *Corylus* L.

2. 1. 55. *Scolytus intricatus* (Ratzeburg, 1837)

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 25.VII.1993, 1 ex., Moericke’ trap on oak, leg. J. Sawoniewicz;
- Rogów, dendrological garden, UTM: DC24, 03.VII.1997, 1 ex., under bark of oak, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1993) and later by Rutkiewicz & al. (2013). A very common species in various forests. The species lives under bark of branches and thin oak steams.

2. 1. 56. *Scolytus mali* (Bechstein, 1805)

- Gutkowice, UTM: DC33, 15.VII.1998, 2 exx., 23.VII.1999, 2 exx., 02.VIII.1999, 1 ex., under bark of mountain ash, leg. J. Borowski;
- Rogów, dendrological garden, UTM: DC24, 16.VII.1999, 4 exx., under bark of *Sorbus* sp., leg. J. Borowski
- Rogów, UTM: DC24, 27.VI.2001, 1 ex., on steam of *Prunus avium* L., leg. J. Borowski.

A common species in the Rogów region. The species lives under thick bark of various trees from Rosaceae family.

2. 1. 57. *Scolytus multistriatus* (Marsham, 1802)

- Rogów, UTM: DC24, VII.1972, 1 ex., leg. J. Dominik;
- Parcela-Popień, UTM: DC23, 14.VII.1999, 8 exx., 22.VII.1999, 1 ex., 01.X.2005, 1 ex., under thin bark of elm, leg. J. Borowski.

A common species lives under thin bark of branches and steams of various elms. Usually found in warm and sunny localities.

2. 1. 58. *Scolytus pygmaeus* (Fabricius, 1787)

- Parcela-Popień, UTM: DC23, 16.V.2001, 3 exx., under bark of elm branch, leg. J. Borowski; 04.VII.2001, 1 ex., under thin bark of elm steam, leg. J. Borowski;
- Rogów, UTM: DC24, 25.VI.2005, 1 ex., at light, leg. J. Borowski.

A quite rare species lives under thin bark of branches and steams of various elms.

2. 1. 59. *Scolytus ratzeburgii* Janson, 1856

- Rogów, „Zacywilki” range, UTM: DC24, 22.VII.1998, 3 exx., under bark of birch-tree, leg. J. Borowski;
- Popień, UTM: DC23, 05.VI.2003, 2 exx., under bark of birch-tree, leg. J. Borowski.

For the first time in the Rogów region shown by Byk & al. (2013). A common species lives under thick bark of birch-trees in warm and sunny localities.

2. 1. 60. *Scolytus rugulosus* (Müller, 1818)

- Rogów, UTM: DC24, V.1958, 1 ex., leg. J. Dominik; 30.VI.1995, 1 ex., caught in flight, leg. J. Borowski;
- Gutkowice, UTM: DC33, 28.VI.1997, 2 exx., under bark of *Pyrus* L., leg. J. Borowski; 22.VI.1998, 1 ex., branches in the orchard, leg. J. Borowski.

A very common species in the Rogów area. The species lives under bark of various trees from Rosaceae family, usually collected together with *S. mali*.

2. 1. 61. *Scolytus scolytus* (Fabricius, 1775)

- Parcela-Popień, UTM: DC23, 02.VIII.1999, 1 ex., 04.VIII.2001, 1 ex., 05.VI.2003, 4 exx., 21.VII.2003, 1 ex., 10.IX.2005, 1 ex., under bark of elm, leg. J. Borowski.

A quite rare species in the Rogów region. The species lives under thick bark of stems of various elms.

2. 1. 62. *Anisandrus dispar* (Fabricius, 1792)

- Rogów, UTM: DC24, 20.XI.1972, 6 exx., leg. J. Dominik;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 08.VI.1995, 1 ex., under bark of oak, leg. J. Borowski; 05.VI.1997, 1 ex., and 06.VI.1997, 1 ex., caught in flight, leg. J. Borowski;
- Rogów, „Górki” range, UTM: DC24, 24.VI.1997, 1 ex., under bark of alder, leg. J. Borowski;
- Lipce, UTM: DC25, “Bukowiec” reserve, 12.XI.1997, 4 exx., under bark of beech, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966a) and later by Borowski & al. (2013) and Piętka (2013). A very common species in various environments. Polyphagous, lives in wood of many deciduous trees and shrubs.

2. 1. 63. *Xyleborinus attenuatus* (Blandford, 1894)

The first data on this species in Rogów region shown by Byk & al. (2013) and later by Borowski & al. (2013) and Piętka (2013). A common species occurs under bark of various deciduous trees.

2. 1. 64. *Xyleborinus saxesenii* (Ratzeburg, 1837)

- Rogów, dendrological garden, UTM: DC24, 22.IV.1995, 1 ex., Moericke’ trap, under *Salix caprea* L., leg. J. Sawoniewicz;
- Lipce, UTM: DC25, 02.VIII.1997, 1 ex., under bark of beech stump, leg. J. Borowski;
- Rogów, „Górki” range, UTM: DC24, 18.VI.1997, 2 exx., under bark of alder, leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 06.VI.1997, 1 ex., netting on *Crataegus monogyna* Jacq., leg. J. Borowski;

- Rogów, „Doliska” range, UTM: DC24, 03.VIII.2004, 3 exx., and 10.VIII.2004, 1 ex., branch of oak, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966a) and next by Mokrzycki (2011) and Piętka (2013). A very common species in the Rogów area. Polyphagous species, lives in wood of many deciduous trees and shrubs.

2. 1. 65. *Xyleborus cryptographus* (Ratzeburg, 1837)

- Rogów, „Doliska” range, UTM: DC24, 23.V.1995, 1 ex., on a lying piece of aspen, leg. J. Borowski;

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 10.VII.2014, 9 exx., under bark of lying aspen, leg. J. Borowski.

A very rare species in the Rogów region. The species lives inside the bark of aspens. However, it may occur in large numbers.

2. 1. 66. *Xyleborus monographus* (Fabricius, 1792)

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 08.VI.1995, 6 exx., on a lying old oak, leg. J. Borowski; 18.XI.1995, 1 ex., on steam of dead oak, leg. J. Borowski; 11.VI.2007, 1 ex., on lying oak, leg. J. Borowski.

For the first time in the Rogów region shown by Dominik (1966a) and next by Borowski & al. (2013) and Piętka (2013). A quite common species in the Rogów area lives in wood of old oaks.

2. 1. 67. *Trypodendron domesticum* (Linnaeus, 1758)

- Lipce, UTM: DC25, “Bukowiec” reserve, 23.X.1998, 2 exx., on the bark of lying old beech, leg. J. Borowski;

- Rogów, dendrological garden, UTM: DC24, 30.III-14.IV.2001, 7 exx., window trap on dead birch-tree, leg. J. Borowski.

For the first time in the Rogów region shown by Byk & al. (2013) and later by Borowski & al. (2013) and Piętka (2013). A common species occurs in wood of beeches and birch-trees.

2. 1. 68. *Trypodendron lineatum* (Olivier, 1795)

- Rogów, UTM: DC24, 29.IV.1967, 2 exx., leg. S. Mazur; 23.V.1992, 2 exx., leg. T. Mokrzycki;

- Rogów, „Doliska” range, UTM: DC24, 09.VI.1997, 8 exx., under bark and in wood of spruce stump, leg. J. Borowski.

A very common species in the Rogów area. For the first time in the Rogów region shown by Dominik (1956). The species lives in wood of various conifers.

2. 1. 69. *Trypodendron signatum* (Fabricius, 1792)

- Popień, UTM: DC23, 31.VII.1997, 9 exx., in wood of lying old alder, leg. J. Borowski.

For the first time in the Rogów region shown by Byk & al. (2013) and later by Borowski & al. (2013) and Piętka (2013). A common species occurs in wood of alders and birch-trees.

2. 2. Curculionidae: Platypodinae

2. 2. 1. *Platypus cylindrus* (Fabricius, 1792)

- Głuchów, UTM: DC33, 25.VI.2013, 8 exx., inside the bark of old oak stump, leg. J. Borowski.

A very rare species in the Rogów region lives in wood of oaks.

3. CONCLUSIONS

From the Rogów region collected 69 species of bark beetles representing approx. 63% of all species in the Polish fauna. Most species collected in the 50s, 60s and 70s of the twentieth century is collecting today. However, the three species previously reported, *Pityophthorus micrographus*, *P. traegardhi* and *Ips duplicatus*, despite the use of variety traps and collecting by many entomologists and students were not caught again. In the Rogów area can expect the occurrence of several more new species of bark beetles, especially introduced and expansive in Poland which is *Xylosandrus germanus* (Bldf.).

In the Rogów region was collected one species of ambrosia beetles. *Platypus cylindrus* is the only representative of Palypodinae subfamily in the Polish fauna.

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References

- [1] Borowski J., Byk A., Mazur S., Mokrzycki T., Rutkiewicz A. 2013. Waloryzacja ekosystemów leśnych Leśnego Kompleksu Promocyjnego „Lasy Spalsko-Rogowskie” w oparciu o mycetobiontyczne chrząszcze grzybów nadrzewnych. *Studia i Materiały CEPL w Rogowie*, 35(2): 175-196.
- [2] Byk A., Borowski J., Mazur S., Mokrzycki T., Rutkiewicz A. 2013. Waloryzacja lasów Leśnego Kompleksu Promocyjnego „Lasy Spalsko-Rogowskie” na podstawie zgrupowań chrząszczy saproksylicznych. *Studia i Materiały CEPL w Rogowie*, 35(2): 82-128.
- [3] Dominik J. 1956. Spostrzeżenia nad możliwością chemicznego zwalczania w drewnie drwalnika paskowanego (*Trypodendron lineatum* Ol.). *Sylwan*, 9: 40-42.
- [4] Dominik J. 1966a. Obserwacje nad występowaniem owadów żyjących w drewnie w lasach doświadczalnych SGGW w Rogowie. *Zesz. Nauk. SGGW, Leśn.*, 9: 103-112.
- [5] Dominik J. 1966b. Wstępne wyniki badań nad biologią i zwalczaniem szeliniaka modrzewiowca (*Hylobius piceus* Deg.) (Curculionidae Col.). *Sylwan*, 8: 1-10.

- [6] Dominik J. 1972. Wyniki 20-letnich obserwacji nad uszkodzaniem przez owady niektórych gatunków drzew iglastych obcego pochodzenia w Lasach Doświadczalnych SGGW w Rogowie. *Sylvan*, 8: 11-18.
- [7] Dominik J. 1977. Szkodliwe owady występujące w uprawach i młodnikach niektórych północnoamerykańskich gatunków modrzewi, świerków i jodeł rosnących w Lasach Doświadczalnych SGGW-AR w Rogowie. *Sylvan*, 12: 57-61.
- [8] Dominik J. 1993. Uwagi o występowaniu kambio- i ksylofagicznych owadów w ostatnim czterdziestolecu w Lasach Doświadczalnych SGGW w Rogowie. *Sylvan*, 9: 77-80.
- [9] Kinelski S. 1958. Nowe stanowiska kilku ciekawych gatunków krajowych korników (Coleoptera-Scolytidae). *Zesz. Nauk. SGGW – Leśnictwo*, 1: 73-75.
- [10] Knížek M. 2004. Platypodinae and Scolytinae, pp. 50. – In Löbl I., Smetana A. (ed.): Catalogue of Palearctic Coleoptera, vol. 7. Stenstrup, Apollo Books, 373 pp.
- [11] Mokrzycki T. 2011. Zgrupowania saproksylicznych chrząszczy (Coleoptera) w pniakach wybranych gatunków drzew – studium porównawcze. Wydawnictwo SGGW, Warszawa, 135 pp.
- [12] Mokrzycki T., Hilszczański J., Borowski J., Cieślak R., Mazur A., Miłkowski M., Szoltys H. 2011. Faunistic review of Polish Platypodinae and Scolytinae (Coleoptera: Curculionidae). *Pol. Pismo Ent.*, 80(2): 343-364.
- [13] Nunberg M. 1955. Uwagi autora o recenzji. *Sylvan*, 99(1): 63-66.
- [14] Nunberg M. 1960. Wiadomości o występowaniu niektórych korników (Col., Scolytidae) na ziemiach Polski. *Pol. Pismo Ent.*, 30(11): 157-162.
- [15] Nunberg M., Wiąckowski S. 1958. Męczelkowate (Braconidae, Hymenoptera) jako pasożyty owadów leśnych. *Fol. Forest. Pol., ser. A*, 1: 129-135.
- [16] Piętka J. 2013. Czynna ochrona zagrożonych grzybów nadrzewnych w lasach. Wydawnictwo SGGW, Warszawa, 188 pp.
- [17] Rutkiewicz A., Borowski J., Byk A., Mokrzycki T. 2013. Waloryzacja lasów Leśnego Kompleksu Promocyjnego „Lasy Spalsko-Rogowskie” na podstawie zgrupowań chrząszczy saproksylicznych powierzchni pni drzew. *Studia i Materiały CEPL w Rogowie*, 35(2): 129-159.
- [18] Wanat M., Mokrzycki T. 2005. A new checklist of the weevils of Poland (Coleoptera: Curculionoidea). *Genus*, 16(1): 69-117.
- [19] Wiąckowski S. 1957a. Wyniki hodowli pasożytów owadów leśnych. Część I. *Pol. Pismo Ent.*, 26(21): 311-320.
- [20] Wiąckowski S. 1957b. Entomofauna pniaków sosnowych w zależności od wieku i rozmiaru pniaka. *Ekol. Pol., ser. A*, 5(3): 13-140.

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