

New species of carabid beetles (Coleoptera: Carabidae) from North-East Poland

Oleg Aleksandrowicz, Robert Gawroński, Bogdan Browarski

Aleksandrowicz O., Gawroński R., Browarski B. 2003. New species of carabid beetles (Coleoptera: Carabidae) from North-East Poland. *Baltic J. Coleopterol.*, 3 (2): 153-156.

The list of 75 species of ground beetles found in Mazurian Lakeland for the first time is presented, and *Badister collaris* Motschulsky, 1844 is listed in Poland for the first time.

Key words: Carabidae, Coleoptera, ground beetle, Mazurian Lakeland, Poland, fauna

Oleg Aleksandrowicz, Bogdan Browarski, University of Warmia and Mazuria, Olsztyn - Kortowo, Łódzki Sq. 3, /0-727 Poland, e-mail: oleg.aleksandrowicz@uwm.edu.pl

Robert Gawroński. Małdyty, Ostródzka street, 14-330 Poland; e-mail: moschata@poczta.onet.pl

After World War II faunistic papers concerning the Mazurian Lakeland are not numerous. Burakowski et al (1973-1974) summarized all old publications in "Katalog Fauny Polski". The actual checklist of Carabidae of the North-East Poland is preparing by Aleksandrowicz et al. It includes 285 species. The collections in the North-East Poland were made during 1997-2003. Beetles were collected using standard entomological methods: ground Barber's trap, netting, collecting flying beetles to light trap, caught by hand, collecting in place of hibernation, in places of occasional accumulation on the Baltic Coast.

Each species is described with square of a grid UTM, geographical information, date, number of specimens, and collector. A total the 75 new species were found. The material is deposited in authors collections and in the collection of Biology Department of Warmia and Mazuria University (Olsztyn) and private collection of Robert Gawroński.

LIST OF SPECIES

1. *Leistus piceus* Frölich, 1799. DE 65 2 km S to

Olsztyn, near Skanda Lake, deciduous forest, under the dead bark of oak stub, 15.07.1998, 1 ex. leg. O. Aleksandrowicz.

2. *Elaphrus aureus* P.W.J.Müller, 1821. CF 90 Elbląg 5.05.2002, 3 exx., leg. R. Gawroński; DE 19 near Pasłęk, sandy bank of river Wzka, 17.05.2003, 11 exx., leg. O. Aleksandrowicz.

3. *Omophron limbatum* (Fabricius, 1776). EE05 2 km SE to Górdy, sandy coast of Babińskie Wielkie Lake. 20.06.2001, 2 leg. O. Aleksandrowicz; DF81 Near Bartoszyce, sandy coast of Lyna river, 1.06.1997, 2 exx., leg. R. Gawroński.

4. *Calosoma inquisitor* (Linnaeus, 1758). DE36 Prokowo near Ostróda, 03.06.1995, 1 ex.; DE17 Małdyty, 26.05.2002, 1 ex., leg. R. Gawroński; DE65 Olsztyn, town oak forest, 26.05.2002, 4 exx., leg. B. Krzeczowski; near Braniewo, oak forest, Lyna valley, 2 exx., leg. O. Aleksandrowicz.

5. *Cicindela campestris* Linnaeus, 1758. DE65 Olsztyn, town forest, 1.05.2003, 4 exx., leg. O. Aleksandrowicz; DE36 Near Florczaki, pine forest, 25.05.2003, 1 ex., leg. R. Gawroński.

6. *Dyschirius angustatus* (Ahrens, 1830). DE65 Olsztyn, town, sandy road. 24.04.2002, 1 ex., leg. O. Aleksandrowicz.

7. *Dyschirius obscurus* (Gyllenhal, 1827). DF12

- Frombork, sandy beach of Vistula Gulf. 17.07.2001, 1 ex., leg. O. Aleksandrowicz.
- 8. *Dyschiriodes neresheimeri* (H.Wagner,1915).** DF22 near Braniewo, river Paśl ka, sandy beach. 4.06.1998,2 exx.; EE35 Mazurian Landscape Park, Beldany Lake, sandy beach, 10.07.2001,1 ex., leg. O. Aleksandrowicz.
- 9. *Dyschiriodes nitidus* Dejean, 1825.** DF22 near Braniewo, river Paśl ka, sandy beach. 4.06.1998, 3 exx., leg. O. Aleksandrowicz.
- 10. *Dyschiriodes politus politus* Dejean,1825.** DE62 „Zródto Lyny" Reservation, swamp beach of lake. 20.05.2001,1 ex., leg. O. Aleksandrowicz; EE05 2 km SE to G dy, coast of Babi ty Wielkie Lake. 20.06.2001,1 ex., leg. O. Aleksandrowicz; EE08 woj. Reszel, S topy-Samulewo, swamp beach, 14.05.2000,1 ex., leg. K. Komoci ski; EE34 Mazurian Landscape Park, Ukta, beach of Krutynia river, 11.06.2000, 1 ex., leg. O. Aleksandrowicz.
- 11. *Tachys bistratus* (Duftschmidt,1812).** DE 17 near Małdyty, sandpit, gravel site, 21 exx., leg. R. Gawro ski.
- 12. *Tachyta nana* (Gyllenhal,1810).** DE 65 Olsztyn, town forest, under the dead bark of *Fraxinus* 2.05.2002,7 exx., leg. O. Aleksandrowicz; DE36 Pro no near Ostróda, under the dead bark of *Quercus* sp., 9.07.2000, 6 exx., leg. R. Gawro ski.
- 13. *Bembidion assimile* Gyllenhal, 1810.** EE08 Reszel, S topy-Samulewo, swamp beach. 14.05.2000.1 ex., leg. K. Komoci ski; DE56 near Olsztyn, Jonkowo Moor, in the bog moss, 10.06.2002,1 exx., leg. B. Browarski.
- 14. *Bembidion bipunctatum* (Linnaeus,1761).** DF02 near Tolkmicko, Vistula Gulf, sandy coast. 12.06.1998,5 exx., leg. O. Aleksandrowicz.
- 15. *Bembidion deletum* Audinet-Serville,1821.** DE 17 near Małdyty, Kielkuty, 13.07.1999,1 ex., leg. R. Gawro ski.
- 16. *Bembidion dentellum* (Thunberg,1787).** DE65 Olsztyn, Krzywe Lake, on the sandy beach with slame, 2.05.2000, 6 exx., leg. O. Aleksandrowicz; EE08 Reszel, S topy-Samulewo, flow river-bank, 14.05.2000, 15 ex., leg. K. Komoci ski; EE05 Babi ty Wielkie Lake, flow beach, 6 ex; leg. O. Aleksandrowicz; DE56 near Olsztyn, Jonkowo Moor, 12.05.2002, 4 exx., leg. B. Browarski.
- 17. *Bembidion gilvipes* (Sturm, 1825).** EE08 Reszel, S topy-Samulewo, swamp beach, 14.05.2000 2 exx., leg. K. Komoci ski; DE 17 near Małdyty, under the dead bark of *Populus* sp., 7.11.2001,1 ex., leg. R. Gawro ski.
- 18. *Bembidion litorale* (Olivier, 1790).** DF81 near Bartoszyce, sandy river-bank, 12.06.1997, 1 ex., leg. R. Gawro ski; DE 19 near Paśl k, river Wazka, sandy river-bank, 17.05.2003, 12 exx., leg. O. Aleksandrowicz.
- 19. *Bembidion monticola* (Sturm, 1825).** DE65 near Olsztyn, Warmi ski forest, Lyna river-bank, 4.06.1998,5 exx., leg. O. Aleksandrowicz.
- 20. *Bembidion punctulatum* Drapiez,1821.** EE35 Mazurian Landscape Park, Beldany Lake, sandy beach, 12.06.2001, 3 exx., leg. O. Aleksandrowicz.
- 21. *Bembidion semipunctatum* (Donovan, 1806).** EE05 2 km W to Jeleniowo, coast of Babi ty Wielkie Lake. 20.06.2001, 1 ex., leg. O. Aleksandrowicz; EE08 Reszel, S topy-Samulewo, swamp beach, 14.05.2000 12 exx., leg. K. Komoci ski.
- 22. *Bembidion striatum* (Fabricius,1792)** EE35 Mazurian Landscape Park, Beldany Lake, sandy beach, 10.07.2001,1 ex., leg. O. Aleksandrowicz.
- 23. *Bembidion varium* (Olivier,1795).** EE34 Mazurian Landscape Park, Ukta. 11.06.2000,1 ex., leg. O. Aleksandrowicz; EE08 Reszel, S topy-Samulewo, swamp beach, 14.05.2000 77 exx., leg. K. Komoci ski; EE05 2 km W to Jeleniowo, coast of Babi ty Wielkie Lake, 20.06.2001,7exx., leg. O. Aleksandrowicz; DE17 Małdyty, into light trap, 27.07.2002,3 exx., leg. R. Gawro ski.
- 24. *Stomis pumicatus* (Panzer, 1796).** DF22 near Braniewo, oak forest, Bałda river valley. 10.06.2002,1 ex., DE68 near Dobre Miasto, pine forest, 15.05.2001,2 exx., leg. O. Aleksandrowicz, DE17 near Zajezerze, arable field, 17.04.1999,12 exx, leg. R. Gawro ski.
- 25. *Pterostichus aterrimus* (Herbst,1784).** DE35 near Ostróda (Osterode Opr.), 2.05.1926, 1 ex., leg. Migge.
- 26. *Pterostichus rhaeticus* Heer,1838.** DE56 near Olsztyn, Jonkowo Moor, in the bog moss, 2.05-21.09.2002, 14 exx., leg. B. Browarski.
- 27. *Agonum afrum* (Duftschmid,1812).** EE05, 2 km W to Jeleniowo, flow beach of Babi ty Wielkie Lake, 20.06.2001, 6 exx., leg. O. Aleksandrowicz.
- 28. *Agonum dolens* (Sahlberg,1827).** EE05, 2 km W to Jeleniowo, flow beach of Babi ty Wielkie

- Lake, 20.06.2001, 2 exx.; EE34 Mazurian Landscape Park, Ukta, flow beach of pond, 11.06.2000, 2 exx.; DE47 flow beach of Wukniki Lake, 19.06.2000, 1 ex., leg. O. Aleksandrowicz.
- 29. *Agonum ericeti* (Panzer, 1809).** DE56 near Olsztyn, Jonkowo Moor, in the bog moss, 10.05-18.08.2002, 23 exx., leg. B. Browarski.
- 30. *Agonum impressum* (Panzer, 1797).** DE 65 Olsztyn, Krzywe Lake, on the sandy beach with slame, 10.05.1999, 6 exx.; EE05 2 km W to Jeleniowo, sandy beach of Babi ty Wielkie Lake, 20.06.2001, 2 exx., leg. O. Aleksandrowicz.
- 31. *Agonum marginatum* (Linnaeus, 1758).** DE 65 Olsztyn, Krzywe Lake, on the sandy beach with slame, 10.05.1999, 3 exx.; DE47 flow beach of Wukniki Lake, 19.06.2000, 5 exx., leg. O. Aleksandrowicz.
- 32. *Agonum versutum* Sturm, 1824.** EE05 2 km W to Jeleniowo, flow beach of Babi ty Wielkie Lake, 20.06.2001, 2 exx.; EE34 Mazurian Landscape Park, Ukta, flow beach of pond, 11.06.2000, 4 exx.; DE47 flow beach of Wukniki Lake, 19.06.2000, 6 exx., leg. O. Aleksandrowicz.
- 33. *Agonum viduum* (Panzer, 1797).** DE62, „Zródło Łyny” Reservation, swamp beach of pond, 20.05.2001, 2 exx.; EE34 Mazurian Landscape Park, Ukta, flow beach of pond, 11.06.2000, 2 exx.; DE47 flow beach of Wukniki Lake, 19.06.2000, 5 exx., leg. O. Aleksandrowicz.
- 34. *Platynus livens* (Gyllenhal, 1810).** DE17 near Małdyty, peat bog, under the bark of dead pine tree, 11.04.1999, 1 ex., leg. R. Gawro ski; DF22 near Braniewo, oak forest, Bałda river valley, 2.05.2002, 1 ex., leg. O. Aleksandrowicz.
- 35. *Olistopus rotundatus* (Paykull, 1790).** DE17 near Małdyty, dry meadow, 8.07.2002, 1 ex.; field on sandy soil, under the soil globs, 12.05.2003, 6 exx., leg. R. Gawro ski.
- 36. *Amara apricaria* (Paykull, 1790).** EE34 Mazurian Landscape Park, near Ukta, dry meadow, 17.07.1999, 4 exx., leg. O. Aleksandrowicz; DE 17 Małdyty, into light trap, 27.07.2002, 2 exx., leg. R. Gawro ski.
- 37. *Amara eurynota* (Panzer, 1797).** DE35 near Ostróda (Osterode Opr.) 2.05.1926, 1 ex., leg. Migge; DE 17 Małdyty, field on sandy soil, under the soil globs, 28.04.2002., 1 ex., leg. R. Gawro ski.
- 38. *Amara infima* (Duftschmid, 1812).** EE65 near Bemowo Piskie, pine forest, 13.06.1999, 2 exx., leg. O. Aleksandrowicz.
- 39. *Amara ingenua* (Duftschmid, 1812).** Małdyty DE 17, field on sandy soil, under the soil globs, 29.07.2002, 2 exx., leg. R. Gawro ski.
- 40. *Amara littorea* Thomson, 1857.** DE 17 Małdyty, field on sandy soil, under the soil globs, 29.07.2002, 20 exx., 10-18.05.2003, 18 exx. leg. R. Gawro ski.
- 41. *Amara majuscula* Chaudoir, 1850.** DE 17 Małdyty, into light trap, 27.07.2002, 20 exx., leg. R. Gawro ski.; DE65 Olsztyn, Redykajny, 14.09.2000, 1 ex., leg. O. Aleksandrowicz.
- 42. *Amara montivaga* Sturm, 1825.** DE17, Małdyty, 21.04.2002., 1 ex., 15.05.2003, 2 exx., 10.05.2003, 1 ex., leg. R. Gawro ski.
- 43. *Amara praetermissa* (Sahlberg, 1827).** CF92 Krynica Morska, Baltic Coast, sandy dune, 1 ex., leg. O. Aleksandrowicz.
- 44. *Curtonotus gebleri* (Dejean, 1831).** EE34 Mazurian Landscape Park, Ukta, dry meadow, 11.06.2000, 1 ex., leg. O. Aleksandrowicz.
- 45. *Bradycellus csikii* Laczo, 1912.** DE17 Małdyty, dry meadow, 21.08.1998, 1 ex., leg. R. Gawro ski; DE55 near Olsztyn, Jonkowo Moore, Calluna. 08.10.2002, 1 ex., leg. B. Browarski; CF02 Krynica Morska, Baltic sandy coast. 28.07.2001, 1 ex., leg. R. Gawro ski.
- 46. *Bradycellus harpalinus* (Audinet-Serville, 1821).** DE01 near Lubawa, Kurz tnik, field, under stone, 24.09.2001, 1 ex., leg. R. Gawro ski; DE 17 Małdyty, into light trap, 27.07.02, 2 ex., dry meadow, 18.11.2001, 1 ex., leg. R. Gawro ski; DE65 Olsztyn, beach of Krzywe Lake. 4.08.2002, 1 ex., leg. O. Aleksandrowicz; DE56 near Olsztyn, Jonkowo Moore, at *Calluna vulgaris* heath. 2.05.2003, 1 ex., leg. O. Aleksandrowicz.
- 47. *Bradycellus ruficollis* (Stephens, 1828).** DE56 Olsztyn, Jonkowo Moore, at *Calluna vulgaris* heath. 2.05.2003, 4 exx., leg. O. Aleksandrowicz.
- 48. *Bradycellus verbasci* (Duftschmid, 1812).** DE 17 Małdyty, into light trap, 27.07.2002, 6 exx., leg. R. Gawro ski; near Olsztyn, Jonkowo Moor, in the bog's moss, 2.05.2003, 1 ex. leg. O. Aleksandrowicz.
- 49. *Dicheirotichus placidus* (Gyllenhal, 1827).** DE62 „Source of Lyna” Reservation, swamp beach of lake. 20.05.2001, 3 exx., leg. O. Aleksandrowicz.
- 50. *Stenolophus mixtus* (Herbst, 1784).** DE62 „Source of Lyna” Reservation, swamp beach of

- pond, 20.05.2001, 4 exx., leg. O. Aleksandrowicz.
- 51. *Stenolophus teutonius* (Schränk, 1781).** DE47 flow beach of Wuksniki Lake, 19.06.2000, 2 exx.; DE73 Łajs, flow beach of Ła skie Lake, 10.07.2001, 2 ex., DE 65 near Olsztyn, flow beach of Redykajny Lake, 29.05.2000, 3 exx., leg. O. Aleksandrowicz.
- 52. *Acupalpus exiguus* (Dejean, 1829).** DE47 flow beach of Wuksniki Lake, 19.06.2000, 1 ex., leg. O. Aleksandrowicz
- 53. *Acupalpus meridianus* (Linnaeus, 1767).** DE65 Olsztyn Town, into light trap, 29.07.2000, 1 ex.; Kortowo, park, 20.04.2001, 2 ex., leg. O. Aleksandrowicz.
- 54. *Anthracus consputus* (Duftschmid, 1812).** DE62 „Zródło Łyny” Reservation, swamp beach of pond, 20.05.2001, 1 ex., leg. O. Aleksandrowicz.
- 55. *Harpalus autumnalis* (Duftschmid, 1812).** DEI 7 near Małdyty, sandpit, 6.08.2002, 1 ex., leg. R. Gawro ski.
- 56. *Harpalus calceatus* (Duftschmid, 1812).** DE 17 near Małdyty, on a field, 21.08.2002, 1 ex., Małdyty, into light trap, 27.07.2002, 10 exx., leg. R. Gawro ski.
- 57. *Harpalus froelichii* Sturm, 1818.** DEI7 Małdyty, into light trap, 1.08.02, 1 ex., leg. R. Gawro ski.
- 58. *Harpalus luteicornis* (Duftschmid, 1812).** DE 17 Małdyty, into light trap, 27.07.2002, 1 ex., leg. R. Gawro ski.
- 59. *Harpalus serripes* (Quensel, 1806).** CF92 near Krynica Morska, Baltic Coast, sandy dune, 12.08.1998, 1 ex., leg. O. Aleksandrowicz.
- 60. *Harpalus signaticeps* (Duftschmid, 1812).** DE 17 near Małdyty, field, in gravel site, 10.07-3.09.2002, 21 exx., leg. R. Gawro ski.
- 61. *Harpalus xanthopus winkleri* Schaubberger, 1923.** DE65 Olsztyn, Redykajny, town oak forest, 14.09.2000, 1 ex.; DF22 near Braniewo, oak forest, Balda river valley, 8.08.2002, 1 ex., leg. O. Aleksandrowicz; DE 17 near Małdyty , on afield, 10.05.2003, 1 ex., leg. R. Gawro ski.
- 62. *Ophonus puncticeps* Stephens, 1828.** DE 17 Małdyty , into light trap, 29.07.2002, 1 ex., leg. R. Gawro ski.
- 63. *Ophonus puncticollis* (Paykull, 1798).** DE 17 Małdyty , into light trap, 31.07.2002, 1 ex., leg. R. Gawro ski.
- 64. *Ophonus rufibarbis* (Fabricius, 1792).** DE 17 near Małdyty , dry meadow, 25.04.1999, 31.07.2002, 1+5 exx., leg. R. Gawro ski; DE65 Olsztyn Town, into light trap, 29.07.2000, 2 exx.; Kortowo, into light trap, 21.07.2001, 1 ex., leg. O. Aleksandrowicz.
- 65. *Badister collaris* Motschulsky, 1844.** DE35 near Stare Jabłonki, flow beach of the pond, 18.05.1999, 1 ex., leg. O. Aleksandrowicz.
- 66. *Badister meridionalis* Puel, 1925.** DE65 Olsztyn, grass near parking, under the stone, 10.10.2002, 4 exx., leg. O. Aleksandrowicz.
- 67. *Badister unipustulatus* Bonelli, 1813.** DE73 near Łajs, flow beach of Ła skie Lake, 10.07.2001, 1 ex., leg. O. Aleksandrowicz.
- 68. *Lebia chlorocephala* (Hoffmannsegg, 1803).** DE27 near Mor g, meadow, 9.04.1995, 1 ex.; DE 17 Małdyty , dry meadow, 28.10.2001, 1 ex.; DE56 near Olsztyn, Jonkowo Moore, 12.05.2003, 1 ex., leg. B. Browarski.
- 69. *Demetrias monostigma* Samouell, 1819.** DE65 Olsztyn-Kortowo, beach of Kortowskie Lake, 4.07.2000, 1 ex., leg. O. Aleksandrowicz.
- 70. *Paradromius linearis* (Olivier, 1795).** DE 14 near Rudzienice, meadow, 18.05.1999, 2 exx., leg. O. Aleksandrowicz.
- 71. *Dromius schneideri* Crotch, 1871.** DE17 near Małdyty , under dead bark of *Pinus* sp., 12.04.2003, 1 ex., leg. R. Gawro ski
- 72. *Microlestes maurus* (Sturm, 1827).** CF02, near Krynica Morska, Baltic Coast, sandy dune, 28.7.1998, 2 exx., leg. O. Aleksandrowicz.
- 73. *Lionychnus quadrillum* (Duftschmid, 1812).** DE 17 near Małdyty, sandpit, gravel site, 10.07-25.08.2002, 21 exx., leg. R. Gawro ski.
- 74. *Syntomus foveatus* (Fourcroy, 1785).** CF02 near Krynica Morska, Baltic Coast, sandy dune., 25.07.1998, 4 exx.; EE34 Mazurian Landscape Park, near Ukta, dry meadow, 17.07.1999, 2 exx., leg. O. Aleksandrowicz.
- 75. *Syntomus obscuroguttatus* (Duftschmid, 1812).** DE 17, Małdyty, under the dead bark of pine stub, 17.02.2002, 1 ex., leg. R. Gawro ski.

REFERENCES

- Burakowski ., Mroczkowski M., Stefanska J. 1973, 1974. Chrza^szcze - Coleoptera. Biegaczowate - Carabidae. Katalog Fauny Polski. Warszawa, PWN, 1973. Pp. 233. 1974. Pp.430.

Received: 24. 05. 2003.

Accepted: 12. 06. 2003.