

10-2018

Dorothy J. Jackson FRES FLS, Scottish Entomologist: A Bibliography

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McLachlan, JR (2018) Dorothy J. Jackson FRES FLS, Scottish entomologist: a bibliography. *Latissimus* 42: 10-13

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ISSN 0966 2235

LATISSIMUS

NEWSLETTER OF THE
BALFOUR-BROWNE CLUB



Number Forty Two

October 2018

DOROTHY J. JACKSON FRES FLS, SCOTTISH ENTOMOLOGIST: A BIBLIOGRAPHY**Jack R. McLachlan**

Dorothy Jean Jackson FRES FLS (1892-1973) should be familiar to anyone interested in water beetles. She published prolifically on the ecology, distribution, flight capacity, and parasites of water beetles, and made especially important contributions to our knowledge of dytiscids. Lees (1974) provided a very brief and somewhat accurate obituary. I am currently preparing a more comprehensive biography of her and would be grateful to receive any notes or anecdotes from those that knew or met her.

Foster (1991), at the request of the late Hans Schaefflein, was the first effort in putting together a publication list. Here I provide a more extensive bibliography of her work that is almost certainly incomplete, but I think includes most of her scientific output between 1907 and 1973. Her first paper was published when she was 14 years old, and her last was completed by Jack Balfour-Browne and published posthumously. Unsurprisingly, there are gaps in her publication list between 1914-1918 and 1939-1945. She had a laboratory at her home in St Andrews, but it was dismantled during the second world war, and she had all but given up entomology until D'Arcy Wentworth Thompson asked her to lecture for him. In preparation for these lectures, she bought her first aquatic net in September 1945. In 1948 Frank Balfour-Browne suggested she start an account of the water beetles of Fife and Kinross, and she began collecting in October of that year. She led work parties in collecting, drying, and packing of moss during the war, and I wonder if this influenced her new post-war interest in dytiscids and other water beetles! Many of her papers are hard to come by, so I can provide copies of any of the works listed below to anyone interested.

1907. Lepidoptera from West [East] Ross-shire. *Annals of Scottish Natural History* **61** 54 + correction **62** 119

1908a. Lepidoptera from East Ross and other localities in the North of Scotland. *Annals of Scottish Natural History* **65** 53-54

1908b. *Amblyptilus punctidactylus*. *Annals of Scottish Natural History* **65** 54

1909a. Notes on the Lepidoptera in the N.E. Highlands. *Annals of Scottish Natural History* **70** 119-120+ correction **72** 248

1909b. List of Lepidoptera captured recently in Rossshire. *Entomologist's Record and Journal of Variation* **21** 115-117, 176-181, 212-216

1910a. Some notes on the Egyptian Lepidoptera. *Entomologist's Record and Journal of Variation*. **22** 17-19

1910b. *Epunda lichenea* and other species at Mull of Galloway. *Entomologist's Record and Journal of Variation*. **22** 117

1910c. A few days amongst the Lepidoptera of Caithness. *Entomologist's Record and Journal of Variation*. **22** 223-224

1910d. Notes on the Lepidoptera of the Scottish Highlands. *Entomologist's Record and Journal of Variation* **22** 130-134

1911. Notes on the Lepidoptera of the Scottish Highlands. *Entomologist's Record and Journal of Variation* **23** 257-260



Dorothy J. Jackson (1892-1973). Photograph probably taken 1945-1955 (J. Baxter, pers. comm). Reproduced courtesy of The St Andrews Preservation Trust

1918. Notes on the aphides of Ross-shire, with descriptions of two species new to science. *Scottish Naturalist* **76** 81-91, 144
1919. Further notes on aphides collected principally in the Scottish Highlands. *Scottish Naturalist* **93** 157-165
1920. Bionomics of weevils of the genus *Sitones* injurious to leguminous crops in Brittain — Part I. *Annals of Applied Biology* **7** 269-298
1921. Genus *Sitones* and its importance in agriculture. *Report of the British Association for the Advancement of Science*, 89th Meeting, p. 462
- 1921b. Notes of the distribution of weevils of the genus *Sitona* in the North of Scotland. *Scottish Naturalist* **120** 178
- 1922a. Further observations on *Sitones lineatus* L. *Annals of Applied Biology*. **9** 69-71
- 1922b. Bionomics of weevils of the genus *Sitona* injurious to leguminous crops in Britain Part II. *Sitona hispidula* F., *S. sulcifrons* Thun. and *S. crinita* Herbst. *Annals of Applied Biology* **9** 93-115
- 1922c. Notes of aphides from Sutherland. Part I. *Scottish Naturalist* **123** 51-59
- 1922d. Notes of aphides from Sutherland. Part II. *Scottish Naturalist* **125** 85-92
1924. Insect parasite of the pea-weevil. *Nature* **113** 353-354
1926. The inheritance of brachypterous and macropterous wings in *Sitona hispidula*. *Nature* **118** 192-193
- 1928a. Wing dimorphism in weevils. *Nature* **122** 478
- 1928b. The biology of *Dinocampus (Perilitus) rutilis* Nees, a braconid parasite of *Sitona lineata* L. Part I. *Proceedings of the Zoological Society of London* **98** 597-630
- 1928c. The inheritance of long and short wings in the weevil (*Sitona hispidula*) with a discussion of wing reduction among beetles. *Transactions of the Royal Society of Edinburgh* **55** 665-735
1929. "Der Flugapparat der Kaefer: Vorbedingung, Ursache und Verlauf seiner Rueckbildung" von Dr. P. Felix Rueschkamp S. J. Stuttgart 1927. 88 pp., 5 figs, 8 pls, 64 refs [book review]. *Entomologist's Record and Journal of Variation* **41** 81-83, 97-99
1933. Observations on the flight muscles of *Sitona* weevils. *Annals of Applied Biology* **20** 731-770
- 1934a. Parasites of weevils of the genus *Sitona*. *Scottish Naturalist* **207** 75-79
- 1934b. Notes on parasites of *Abraxas grossulariata* in Fife. *Scottish Naturalist* **209** 143-147
- 1935a. Giant cells in insects parasitised by Hymenopterous larvae. *Nature* **135** 1040-1041
- 1935b. Further notes on parasites of the magpie moth (*Abraxas grossulariata* L.) in Scotland. *Scottish Naturalist* **214** 89-98
- 1937a. Excretion during cocoon spinning in *Trophocampa (Casinaria) vidua* Grav. *Proceedings of the Royal Entomological Society of London (A)* **12** 52
- 1937b. Host-selection in *Pimpla examinator* F. (Hymenoptera). *Proceedings of the Royal Entomological Society of London (A)* **12** 81-91
- 1937c. Observations on Ichneumonidae. *Proceedings of the Royal Entomological Society of London (C)* **2** 17-18
- 1950a. *Noterus clavicornis* Degeer & *N. capricornis* Herbst. (Col. Dytiscidae) in Fife. *Entomologist's Monthly Magazine* **86** 39-43
- 1950b. Rare moth found. *St Andrews Citizen*, 26th August 1950. p. 5
- 1950c. *Convolvulus* hawkmoth. *St Andrews Citizen*, 2nd September 1950. p. 5
- 1951a. Nematodes infesting water beetles. *Entomologist's Monthly Magazine* **87** 265-268
- 1951b. Food-plant of *Jacksonia papillata* Theobald (Hemiptera: Aphididae). *Proceedings of the Royal Entomological Society of London (A)* **26** 41-42
- 1952a. *Haliplus obliquus* F. (Col. Haliplidae) in Fife with notes on other water beetles and water bugs from the same habitat. *Entomologist's Monthly Magazine* **88** 108
- 1952b. Observations on the capacity for flight of water beetles. *Proceedings of the Royal Entomological Society of London (A)* **27** 57-70
1953. Stridulation of *Cychrus rostratus* L. *Bulletin of the Amateur Entomologists' Society* **12** 22-23
- 1954a. Letter to the Editor. *Entomologist's Gazette* **5** 63 [discussion of *Noterus* spp. names]
- 1954b. Antennal abnormalities in *Hydroporus discretus* Fairm. (Col. Dytiscidae) and a reduced tarsus in *Gyrinus minutus* F. (Col. Gyrinidae). *Entomologist's Monthly Magazine* **90** 173-175
- 1954c. Notes on water beetles from the island of Raasay. *Scottish Naturalist* **66** 30-34

- 1955a. Further notes on beetles from the island of Raasay, and some Scottish records of Donaciinae. *Scottish Naturalist* **67** 34-39
- 1955b. Ladybirds. *St Andrews Citizen*, 17th September 1955. p. 5
- 1955c. Untitled [wing size variation in *Caraphractus cinctus* Walker]. *Proceedings of the Royal Entomological Society of London (C)* **20** 36
- 1956a. Observations of water beetles during drought. *Entomologist's Monthly Magazine* **92** 154-155
- 1956b. *Nebria brevicollis* F. (Col., Carabidae) in flight, and a question regarding flight-termination in Dytiscidae. *Entomologist's Monthly Magazine* **92** 155-156
- 1956c. Notes on Hymenopterous parasitoids bred from eggs of Dytiscidae in Fife. *Journal of the Society for British Entomology* **5** 144-149
- 1956d. The capacity for flight of certain water beetles and its bearing on their origin in the Western Scottish Isles. *Proceedings of the Linnean Society of London* **167** 76-96
- 1956e. Dimorphism of the metasternal wings in *Agabus raffrayi* Sharp and *A. labiatus* Brahm. (Col. Dytiscidae) and its relation to capacity for flight. *Proceedings of the Royal Entomological Society of London (A)* **31** 1-11
- 1956f. Observations on flying and flightless water beetles. *Zoological Journal of the Linnean Society of London* **43** 18-42
1957. A note on the embryonic cuticle shed on hatching by the larvae of *Agabus bipustulatus* L. and *Dytiscus marginalis* L. (Coleoptera: Dytiscidae). *Proceedings of the Royal Entomological Society of London (A)* **32** 115-118
- 1958a. *Plutella maculipennis* Curtis in swarms at St. Andrews. *Entomologist* **91** 210
- 1958b. Observations on *Hydroporus ferrugineus* Steph. (Col. Dytiscidae), and some further evidence indicating incapacity for flight. *Entomologist's Gazette* **9** 55-59
- 1958c. Notes on some nematodes and trematodes infesting water beetles. *Entomologist's Monthly Magazine* **94** 109-111
- 1958d. A further note on a *Chrysocharis* (Hym. Eulophidae) parasitizing the eggs of *Dytiscus marginalis* L., and a comparison of its larva with that of *Caraphractus cinctus* Walker (Hym. Mymaridae). *Journal of the Society for British Entomology* **6** 15-22
- 1958e. Egg-laying and egg hatching in *Agabus bipustulatus* L. with notes on oviposition of other species of *Agabus* (Col. Dytiscidae). *Transactions of the Royal Entomological Society of London* **10** 58-80
- 1958f. Observations on the biology of *Caraphractus cinctus* Walker (Hymenoptera: Mymaridae) a parasitoid of the eggs of Dytiscidae I. Methods of rearing and numbers bred on different host eggs. *Transactions of the Royal Entomological Society of London* **110** 533-554
- 1959a. Observations on three gynandromorphs of *Caraphractus cinctus* Walker (Hym., Mymaridae), and notes on antennal variation in this species. *Entomologist's Monthly Magazine* **95** 198-203
- 1959b. The association of a slime bacterium with the inner envelope of the egg of *Dytiscus marginalis* (Coleoptera), and the less common occurrence of a similar bacterium on the egg of *D. semisulcatus*. *Quarterly Journal of Microscopical Science* **100** 433-443
- 1959c. British Water Beetles of the Family Hydrophilidae Vol. 3 by Prof. Frank Balfour-Browne. liii + 210 (London: The Ray Society, 1958. Bernard Quaritch, Ltd., 11 Grafton Street, W.1.) [book review]. *Nature* **183** 1420-1421
- 1960a. Revised determination of a Eulophid (Hym., Chalcidoidea) bred from eggs of *Dytiscus marginalis* L. *Entomologist* **93** 181
- 1960b. Fertile eggs laid by females of *Dytiscus marginalis* long separated from males. *Entomologist's Gazette* **11** 204-206
- 1960c. Observations on egg-laying in *Ilybius fuliginosus* Fabricius and *I. ater* Degeer (Coleoptera: Dytiscidae), with an account of the female genitalia. *Transactions of the Royal Entomological Society of London* **112** 37-52
- 1961a. *Orectochilus villosus* (Mull.) (Col., Gyrinidae) recorded out of water. *Entomologist's Monthly Magazine* **97** 210
- 1961b. Diapause in an aquatic mymarid. *Nature* **192** 823-824

- 1961c. Observations on the biology of *Caraphractus cinctus* Walker (Hymenoptera: Mymaridae) a parasitoid of the eggs of Dytiscidae (Coleoptera). 2. Immature stages and seasonal history with a review of mymarid larvae. *Parasitology* **51** 269-294
- 1961d. *Coelopa frigida* (Fabricius) (Diptera, Coelopidae) swarming on a January night on windows at St. Andrews. *Entomologist* **94** 166
1963. Diapause in *Caraphractus cinctus* Walker (Hymenoptera - Mymaridae), a parasitoid of eggs of Dytiscidae (Coleoptera). *Parasitology* **53** 225-251
- 1964a. Observations on the life history of *Mestocharis bimacularis* (Dalman) Hym. Eulophidae, a parasitoid of the eggs of Dytiscidae. *Opuscula entomologica* **29** 81-97
- 1964b. Water beetles collected in the Morton Lochs Nature Reserve, Fife. *Scottish Naturalist* **71** 95-97
1966. Observations on the biology of *Caraphractus cinctus* Walker (Hymenoptera: Mymaridae), a parasitoid of the eggs of Dytiscidae (Coleoptera) III. The adult life and sex ratio. *Transactions of the Royal Entomological Society of London* **118** 23-49
1969. Observations on the female reproductive organs and the poison apparatus of *Caraphractus cinctus* Walker (Hymenoptera: Mymaridae). *Zoological Journal of the Linnean Society* **48** 59-81
1972. Dispersal of *Hyphydrus ovatus* L. (Col. Dytiscidae). *Entomologist's Monthly Magazine* **108** 102-104
1973. The influence of flight capacity on the distribution of aquatic Coleoptera in Fife and Kinross. *Entomologist's Gazette* **27** 247-293
- FOSTER G N 1991. Dorothy Jackson – a publications list. *Balfour-Browne Club Newsletter* **49** 16-17.
- LEES A W 1974. President's remarks. *Proceedings of the Royal Entomological Society, Series C* **38** 57
- Received August 2018

AULONOGYRUS OUT OF AFRICA

Aulonogyrus Motschulsky has more than 50 species, until this analysis, spread over five subgenera. It has high endemism in southern Africa, with other endemics scattered around the southern hemisphere. Ancestral range reconstruction indicates that the genus originated in Africa with several separate Cenozoic dispersals to Madagascar, plus movements into the Palaearctic and Oceania. This reappraisal has resulted in recognition of only two subgenera, *Aulonogyrus* s. str. with four species in the Palaearctic, Australia and New Caledonia, and *Afrogyrus* Brinck, with 50 known species found mainly in Africa, four in Madagascar and *A. obliquus* Walker in India and Sri Lanka. *Aulonogyrus* s. str. (illustrated, courtesy of Grey) has a strigose labrum whereas this is mostly smooth in *Afrogyrus*.



GUSTAFSON G T 2018. Cenozoic out-of-Africa dispersal shaped diversification of the whirligig beetle genus *Aulonogyrus* (Coleoptera: Gyrinidae: Gyrinini). *Arthropod Systematics & Phylogeny* **76** 295-302.

TROGLOMORPH COPELATUS

The new species is described from a Brazilian cave. It is the second cave-dwelling copelatine diving beetle after *Exocelina abdita* Balke *et al.*, and has the troglomorphic trappings of blindness, narrowness and winglessness, plus long hairs and the elytra being fused. The female genitalia are added to the more normal range of illustrations.

CAETANO D S, DE CASSIA BENÁ D & VANIN S A 2013. *Copelatus cessaima* sp. nov. (Coleoptera: Dytiscidae: Copelatinae): first record of a troglomorphic diving beetle from Brazil. *Zootaxa* **3710** 226-232.