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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 Schaeflein, 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.

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
1909b. List of Lepidoptera captured recently in Rossshire. *Entomologist's Record and Journal of Variation* 21 115-117, 176-181, 212-216
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
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
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
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
1926. The inheritance of brachypterous and macropteroes wings in *Sitona hispidula*. *Nature* 118 192-193
1928b. The biology of *Dinocampus* (Perillus) rutilus Nees, a braconid parasite of *Sitona lineata* L. Part I. *Proceedings of the Zoological Society of London* 98 597-630
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
1937a. Excretion during cocoon spinning in *Trophocampa* (Casinaria) vidua Grav. *Proceedings of the Royal Entomological Society of London* (A) 12 52
1950b. Rare moth found. *St Andrews Citizen, 26th August* 1950. p. 5
1953. Stridulation of *Cychrus rostratus* L. *Bulletin of the Amateur Entomologists' Society* 12 22-23
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


1955c. Untitled [wing size variation in *Caraphractus cinctus* Walker]. *Proceedings of the Royal Entomological Society of London (C)* **20** 36


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* Brahms (Col. Dytiscidae) and its relation to capacity for flight. *Proceedings of the Royal Entomological Society of London (A)* **31** 1-11


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


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


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


1961d. Coelopa frigida (Fabricius) (Diptera, Coelopidae) swarming on a January night on windows at St. Andrews. Entomologist 94: 166.


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AULONOGRYUS OUT OF AFRICA

Aulonogyrus Motschulsky has more than 50 species, until this analysis, spread over five subgenera. It has high endemicity 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 Palaeartic and Oceania. This reappraisal has resulted in recognition of only two subgenera, Aulonogyrus s. str. with four species in the Palaeartic, 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.


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.