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ADDITIONAL IOWA SPECIES OF DOLICHOPODAE (DIPTERA) WITH SOME ECOLOGICAL NOTES

B. G. Berger and H. E. Jaques

A family that is easily distinguished from all other families, small to medium sized, and sufficiently abundant to make collecting enjoyable and profitable, has the desirable characteristics for the beginning Entomologist. Such is the Dipterous family *Dolichopodac*. The discal and the second basal cell of the wing are coalescent. Wing venation is simple, but the last section of the fourth longitudinal vein has very striking and definite characteristics. In the genera *Sciapus*, *Condylostylus* and *Laxina*, the fourth vein has a divergent fork; in others, it may be straight, curved, bent abruptly in the middle, broken with a stump vein at the bend, or it may be parallel, or convergent to the third longitudinal vein. The tarsi

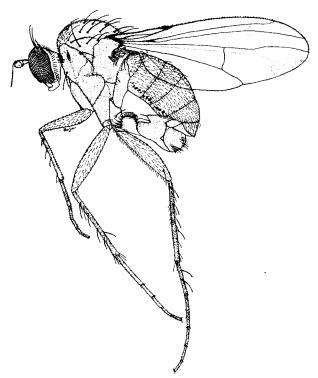


Fig. 1. Dolichopus jaquesi F. C. H. & G. F. K.J.

and tibiae of the fore and middle legs are often highly ornamented with secondary sexual characteristics. Even the antennae in a few species have enlarged segments which aid in the determination of the species.

The entire ventral side of the head is occupied by the oral opening. Both sides of the head are covered by the eyes leaving only a small face and front. The three jointed antennae always bear an arista. This arista, which may or may not be elongated infrequently bears a lamella, and may be apical, dorsal or ventral to the third segment.

The genera, Sciapus, Condylostylus and Laxina are usually found

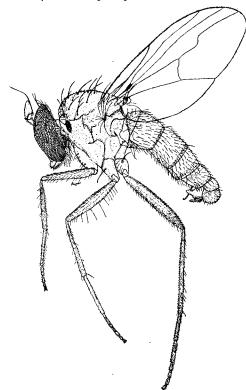


Fig. 2. Argyra albicans Loew. of

on garden flowers and bushes such as the blackberry and raspberry. Diaphorus and Chrysotus are easily collected on shaded lawns or on small plants bordering a stream or pond. Campsicnemus were found, only in Wild Cat Den State Park where they were fairly abundant around the mineral streams. Rhaphium, Calyxochaetus, Peloropeodes, Syntormon, Nothosympycnus, Gym-

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nopternus, Tachytrechus and Thrypticus are taken sparingly by sweeping in the grass and weeds in the vicinity of water. Argyra may be collected in damp places covered with a rich vegetation. Neurigona are taken from the sides of trees and on high damp, shaded rocks where they wait for their food; which is made up of small, soft-bodied insects, to pass by. Our two Iowa species of Hydrophorus have both been taken from the surface of ponds and lakes where they glide close to the water surface searching for food. Specimens of Dolichopus are easily distinguished by having two or more bristles on the basal segment of the posterior tarsus. Species of this genus are found on the prairie, along water courses, in the woodland and in bogs and swamps. This genus is the largest and most common of the family Dolichopodae. Two species of Pelastoneurus are particularly abundant along lightly-shaded streams and lakes where they occur on the mud, sand and gravel.

The authors wish to thank Mr. F. C. Harmston for much help and encourgement with this problem.

The following list of *Dolichopodae* are found in the Iowa Insect Survey Collection at Iowa Wesleyan College. A large percentage of these species were secured through work done at the Iowa Lakeside Laboratory and the trips throughout the state which are associated with the Lakeside Laboratory research problem.

Sciapus scintillans Lw. Sciapus unifasciatus Say. Sciapus comatus Schiner Condylostylus sipho Say. Condylostylus furcatus V. D. Condylostylus melanpus Lw. Laxina patibulatus Sav. Laxina scobinator Lw. Laxina caudatus Wd. Laxina flavipes Ald. Laxina inermis Lw. Laxina calcaratus Lw. Diaphorus leucostoma Loew Diaphorus sodalis Lw. Diaphorus spectabilis Lw. Diaphorus repandus V. D. Chrysotus barbatus Lw. Chrysotus cornutus Lw. Chrysotus exiguus VanD. Chrysotus longimanus Lw. Chrysotus obliquus Lw. Chrysotus pallipes Lw. Chrysotus picticornis Lw.

Campsienemus hirtipes Lw. Argyra albicans Lw. Argyra calceata Lw. Rhaphium melampus Lw. Rhaphium rotundiceps Lw. Rhaphium fumipenne Lw. Rhaphium vanduzeei Curran Calyxochaetus frontalis Lw. Syntormon cinereiventris Lw. Sympychus lineatus Lw. Sympychus nodatus Lw. Sympychus frontalis Lw. Nothosympycnus nodatus Lw. Neurigona aestiva VanD. Neurigona aldrichi VanD. Neurigona carbonifer Lw. Neurigona floridula Wheel. Neurigona lateralis Say. Neurigona rubella Lw. Medeterus veles VanD. Medeterus vittatus VanD. Peloropeodes acuticornis V. D. Thrypticus fraterculus Wh.

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Thrypticus willistoni Wh. Thrypticus singularis Ald. Hydrophorus aestuum Lw. Hydrophorus plilombris Wheel. Scellus exustus Wlk. Dolichopus absonus V. C. & A. Dolichopus acuminatus Lw. Dolichopus albicoxa Ald. Dolichopus jaquesi H. & K. Dolichopus barbicauda V. C. & A. Dolichopus batillifer Lw. Dolichopus bifractus Lw. Dolichopus calcaratus Ald. Dolichopus comatus Lw. Dolichopus canadensis V. D. Dolichopus bakeri Cole Dolichopus cuprinus Wiedemann Dolichopus dakotensis Ald. Dolichopus detersus Lw. Dolichopus eudactylus Loew. Dolichopus flagellitenens Wheel. Dolichopus indigena V. C. & A. Dolichopus latipes Loew. Dolichopus lobatus Lw. Dolichopus longipennis Lw. Dolichopus melanocerus Lw.

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Dolichopus ovatus Lw. Dolichopus pachycnemus Lw. Dolichopus olumipes Scop. Dolichopus mysota O. S. Dolichopus procerus V. D. Dolichopus ramifer Lw. Dolichopus retinens V. C. & A. Dolichopus scapularis Lw. Dolichopus setosus Lw. Dolichopus socius Lw. Dolichopus sarotes Lw. Dolichopus terminalis Lw. Dolichopus variabilis Lw. Dolichopus virgilans Ald. Dolichopus walkeri V. D. Gymnopternus barbatulus Lw. Gymnopternus crassicauda Lw. Gymnopternus exilis Lw. Gymnopternus frequens Lw. Gymnopternus meniscus Lw. Gymnopternus scotias Lw. Gymnopternus minutus Lw. Tachytrechus binodatus Lw. Pelastoneurus lamellatus Lw. Pelastoneurus vagans Lw.