

A new record for *Pellenes lapponicus* (Araneae: Salticidae) from the Northeastern United States, with notes on synonymies and combinations for the species¹

G. B. Edwards² and Daniel T. Jennings³

¹ Florida Department of Agriculture & Consumer Services, Division of Plant Industry, Bureau of Entomology, Nematology & Plant Pathology, Entomology Section Contribution #1188

² Florida State Collection of Arthropods, Division of Plant Industry, P. O. Box 147100, Gainesville, FL 32614-7100 USA

³ P. O. Box 130, Garland, ME 04939-0130 USA

Pellenes lapponicus (Sundevall, 1833) is a widespread northern Palaearctic species that has been reported in scattered Nearctic localities (Prószyński, 2010). It was described in North America from Laggan, Alberta, Canada, as *Habrocestum montanum* Emerton, 1894. Peckham & Peckham (1901) placed Emerton's species in *Pellenes* and cited it from the Rocky Mountains, Canada [presumably referring to Emerton, 1894]. They later (Peckham & Peckham, 1909) reported it from Denver, Colorado, for the only previous United States record. Larrivée *et al.* (2005) and Paquin & Dupérré (2006) recently reported it from Quebec, Canada, which appeared to be the first records from eastern North America. All North American authors have continued to use the combination *Pellenes montanus*, although Paquin & Dupérré (2006) noted its association with *P. lapponicus*, even though they were uncertain about the synonymy. With the exception of the non-taxonomic paper by Larrivée *et al.* (2005), these records are summarized in Platnick (2010).

Danilov & Logunov (1994) noted that this is “A Holarctic boreo-montane species ranging from Middle Europe (Alps) in the west to Alberta, USA [sic], in the east (known there as *P. montanus*).” That is about as close as you can get to synonymizing *P. montanus* (Emerton) without actually writing “New Synonym.” These authors also considered the female epigyne to be similar to the genus *Evarcha*, and later the species was transferred to that genus (Logunov, Marusik, & Rakov, 1999). Subsequently, this decision was reversed (Logunov & Marusik, 2000). The male genitalia are atypical for the genus, leading Cantarella & Alicata (2002) to question whether the species belongs to either *Evarcha* or *Pellenes*. They temporarily placed it in the genus *Attus*. However, *Attus* is a synonym of *Salticus*, therefore this is an untenable solution. For now, the species seems best placed in *Pellenes*, where it most recently has been placed by various authors including the catalogs of Platnick (2010) and Prószyński (2010). Based on a comparison of published figures, we are in agreement that *P. montanus* (Emerton, 1894) is a synonym of *P. lapponicus* (Sundevall, 1833). An updated synonymy in the style of Platnick (2010) is listed below.

mf lapponicus (Sundevall, 1833).....Holarctic [urn:lsid:amnh.org:spidersp:035287]

Attus l. Sundevall, 1833a: 212 (**Dm**).

Attus riciniatus Simon, 1868b: 37 (**Dm**).

P. l. Simon, 1876a: 92, pl. 9, f. 17 (**m**).

Habrocestum montanum Emerton, 1894: 420, pl. 1, f. 6 (**Dmf**).

[urn:lsid:amnh.org:spidersp:035297]

P. l. Simon, 1901a: 659, f. 789 (**m**).

P. m. Peckham & Peckham, 1901c: 204, 207.

P. m. Peckham & Peckham, 1909: 562, pl. 47, f. 9 (**mf**).

P. l. Lessert, 1910b: 587, f. 247-248 (**m**, **Df**).

P. l. Simon, 1937: 1231, 1268, f. 1988-1989 (**m**).

P. l. Tullgren, 1944: 60, pl. 6, f. 109-110 (**mf**).

- P. l.* Thaler, 1981c: 125, f. 63-64, 73 (mf).
- P. l.* Heimer & Nentwig, 1991: 512, f. 1369 (mf).
- P. l.* Danilov & Logunov, 1994: 33, f. 3A-D (mf, S).
- Evarcha lapponica* Logunov, Marusik & Rakov, 1999: 90 (Tmf from *Pellenes*).
- P. l.* Logunov & Marusik, 2000: 268, f. 22-23 (Tmf from *Evarcha*).
- Attus l.* Cantarella & Alicata, 2002: 572, f. 1-3 (m, belongs to neither *Evarcha* nor *Pellenes*).
- P. m.* Paquin & Dupérré, 2006: 21, f. 41-46 (mf)
- P. l.* Almquist, 2006: 548, f. 458a-c (m).

The new record was brought by DTJ to GBE for determination in regard to a checklist of the spiders of Maine in preparation by DTJ. The collection data are as follows: USA: Maine: Penobscot Co. T3 R8. Pitfall trap, plot P #6. Partial cut beech-maple stand. 16 June 1999. 1 male (A. S. Weed, FSCA).

Subsequent to the first publication of this paper (Edwards & Jennings, 2010), DTJ discovered that he had previously published records of this species (Jennings *et al.*, 1988) under its junior synonym, *Pellenes montanus*. Four specimens were taken from pitfall traps in Piscataquis County, Maine, 18 May - 3 August 1978, from clear-cut strips of a spruce-fir forest. These were the first records for the state, for the northeast United States, and for eastern North America.

References Cited

- Cantarella, T. & P. Alicata. 2002.** On the genus *Pellenes* Simon 1876 (Araneae, Salticidae): synonymies and description of a new Italian species. *Bollettino dell'Accademia Gioenia di Scienze Naturali* 35: 571–581.
- Danilov, S. N. & D. V. Logunov. 1994.** Faunistic review of the jumping spiders of Transbaikalia (Aranei Salticidae). *Arthropoda Selecta* 2 (4): 25–39.
- Edwards, G. B. & D. T. Jennings. 2010.** A first record for *Pellenes lapponicus* (Araneae: Salticidae) from the Northeastern United States, with notes on synonymies and combinations for the species. *Peckhamia* 86.1: 1–2.
- Emerton, J. H. 1894.** Canadian spiders. *Transactions of the Connecticut Academy of Arts and Sciences* 9: 400–429.
- Jennings, D. T., M. W. Houseweart, C. D. Dondale, & J. H. Redner. 1988.** Spiders (Araneae) associated with strip-clearcut and dense spruce-fir forest of Maine. *Journal of Arachnology* 16: 55–70.
- Larrivé, M., L. Hahring & P. Drapeau. 2005.** Effects of a recent wildfire and clearcuts on ground-dwelling boreal forest spider assemblages. *Canadian Journal of Forest Research* 35: 2575–2588.
- Logunov, D. V. & Y. M. Marusik. 2000.** Miscellaneous notes on Palaearctic Salticidae (Arachnida: Aranei). *Arthropoda Selecta* 8: 263–292.
- Logunov, D. V., Y. M. Marusik & S. Y. Rakov. 1999.** A review of the genus *Pellenes* in the fauna of Central Asia and the Caucasus (Araneae, Salticidae). *Journal of Natural History* 33: 89–148.
- Paquin, P. & N. Dupérré. 2006.** The spiders of Quebec: update, additions and corrections. *Zootaxa* 1133: 1–37.
- Peckham, G. W. & E. G. Peckham. 1901.** *Pellenes* and some other genera of the family Attidae. *Bulletin of the Wisconsin Natural History Society (N. S.)* 1: 195–233.
- Peckham, G. W. & E. G. Peckham. 1909.** Revision of the Attidae of North America. *Transactions of the Wisconsin Academy of Sciences, Arts and Letters* 16 (1): 355–655.
- Platnick, N. I. 2010.** The world spider catalog, version 11.0. American Museum of Natural History, online at <http://research.amnh.org/entomology/spiders/catalog/index.html>.
- Prószyński, J. 2010.** Monograph of Salticidae (Araneae) of the World 1995-2010, online at <http://www.miiz.waw.pl/salticid/main.htm>.
- Sundevall, C. J. 1833.** Svenska spindlarnes beskrifning. Fortsättning och slut. Kongliga Svenska Vetenskaps-Academiens Handlingar 1832: 172–272.