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## Type revisions of Tersilochinae described from the Nearctic region (Hymenoptera, Ichneumonidae)

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**Abstract:** The types of 24 species of Tersilochinae (Hymenoptera, Ichneumonidae) described from the Nearctic region are revised here. Lectotypes are designated for *Aneuclis erythrostroma* CAMERON, *Atractodes politus* ASHMEAD, *Isurgus alaskensis* ASHMEAD, *Porizon borealis* PROVANCHER and *Porizon contracheli* RILEY, in order to preserve stability of nomenclature. The following synonymies are newly indicated: *Tersilochus striola* (THOMSON), syn. *Isurgus alaskensis* ASHMEAD; *Barycnemis rugosa* (PROVANCHER), syn. *Porizon boreale* PROVANCHER; *Barycnemis gravipes* (GRAVENHORST), syn. *Porizon borealis* PROVANCHER; *Barycnemis linearis* ASHMEAD, syn. *Zasternaulax simplicicornis* VIERECK.

**Key words:** Ichneumonidae, Nearctic region, Tersilochinae, type revisions.

### Introduction

After finishing a revision of the western Palearctic Tersilochinae (HORSTMANN 1971, 1981), I planed to revise the Nearctic species of this subfamily and studied the types of all described species during visits in Ann Arbor, Ottawa and Washington in the year 1978. But revisions of western Palearctic Ichneumonidae, a precondition for cataloguing these species (YU & HORSTMANN 1997), so far prevented further studies of Nearctic Tersilochinae. Here I present the results of those type revisions.

### Type revisions

#### ***Aneuclis erythrostroma* CAMERON 1905**

*Aneuclis* (?) *erythrostroma* CAMERON 1905: 131.

Lectotype (♂) here designated: "Type", "B.M. Type Hym. 3.6.1431", "*Aneuclis* ? *erythrostroma* CAM. type", "Ormsby Co. Nev. July Baker", "3976", "P. Cameron Coll. 1914-110" (Mus. London). Another possible syntype (♂) with the same locality dates is preserved in the Washington museum, but it is unknown, whether Cameron has taken this specimen into account.

Valid name: *Diaparsis erythrostroma* (CAMERON 1905) (comb. nov.).

***Atractodes politus* ASHMAED 1890**

*Atractodes politus* ASHMEAD 1890: 23.

Lectotype (♀) here designated: "Lees Cabin Col" (most parts of hind legs missing) (Mus. Washington). The paralectotype (♀) from the type locality (head missing) and the male from Timber Line provisionally attributed to this species by Ashmead are also preserved in the Washington museum.

Valid name: *Barycnemis harpura* (SCHRANK 1802) (CARLSON 1979: 693).

***Barycnemis linearis* ASHMEAD 1895**

*Barycnemis linearis* ASHMEAD 1895: 238.

Holotype (♀): "Ottawa Can", "Type", "638" (head and parts of the tarsi missing) (Mus. Washington) (TOWNES 1945: 705; HORSTMANN 1981: 57).

Valid name: *Barycnemis linearis* ASHMEAD 1895. The material from Northern Europe determined as *B. linearis* by HORSTMANN (1981: 57) belongs to another species.

***Barycnemis slossonae* CUSHMAN 1922**

*Barycnemis slossonae* CUSHMAN 1922: 8.

Holotype (♀): "Mt. Wash'n." (= Mount Washington, N.H.) (Mus. Washington) (TOWNES 1945: 705).

Valid name: *Barycnemis bellator* (MÜLLER 1776) (TOWNES 1971: 40).

***Cremastus angularis* PROVANCHER 1874**

*Cremastus angularis* PROVANCHER 1874: 176.

Holotype (♂): "452" (from Québec), "*Porizon angulare* Prov." (Univ. Laval) (GAHAN & ROHWER 1918: 169; BARRON 1975: 423). The second specimen mentioned by Barron is no syntype. It belongs to *Barycnemis rugosa* (PROVANCHER).

Valid name: *Barycnemis harpura* (SCHRANK 1802) (TOWNES 1971: 40).

***Heterocola americana* BRUES 1916**

*Heterocola americana* BRUES 1916: 331.

Holotype (♀): "Forest Hills Mass 9 1913" (Univ. Cambridge).

Valid name: *Diaparsis americana* (BRUES 1916) (TOWNES 1971: 48).

***Isurgus alaskensis* ASHMEAD 1902**

*Isurgus alaskensis* ASHMAED 1902: 239.

Lectotype (♀) here designated: "Popof Island Alaska, July 12 '99", "Harriman Expedition '99 T. Kincaid, Collector" (Mus. Washington). The paralectotype (♀) from the type locality (gaster missing) is also preserved in the Washington museum.

Valid name: *Tersilochus (Pectinolochus) striola* (THOMSON 1889) (syn. nov.).

***Luchatema baldufi* WALKLEY 1956**

*Luchatema baldufi* WALKLEY 1956: 154.

Holotype (♀): "Chetek Wis 7.2.1951", "From hips of *Rosa carolina*" (!), "From hips of *Rosa blanda*", "Reared by W.V. Balduf", "Acquisition Number 80", "Acq. 80, Ex *R. b.* soil pot cage 7.2.1951" (Mus. Washington).

Valid name: *Diaparsis baldufi* (WALKLEY 1956) (HORSTMANN 1971: 102).

***Mesoleptus micans* PROVANCHER 1875**

*Mesoleptus micans* PROVANCHER 1875: 113-114.

Lectotype (♀!): "372" (from Québec), "*Thersilochus micans* PROV." (Univ. Laval) (GAHAM & ROHWER 1918: 199; BARRON 1975: 509). The non-type labelled "1040" and mentioned by Barron belongs to *Barycnemis rugosa* (PROVANCHER).

Valid name: *Barycnemis harpura* (SCHRANK 1802) (BARRON 1975: 509).

***Notopygus americana* HARRINGTON 1892**

*Notopygus americana* HARRINGTON 1892: 98.

Holotype (♀): "166" (from Ottawa district), "Holotype *Notopygus americana* HARR. ♀ No 194" (Mus. Ottawa) (SARAZIN 1987: 92).

Valid name: *Barycnemis gravipes* (GRAVENHORST 1829) (YU & HORSTMANN 1997: 880).

***Porizon boreale* PROVANCHER 1879**

*Porizon boreale* PROVANCHER 1879: 206 (preocc. by *Porizon borealis* ZETTERSTEDT 1838).

Lectotype (♂!): "370" (from Québec), "*Porizon borealis* PROV." (!) (head and parts of the legs missing) (Univ. Laval) (GAHAN & ROHWER 1918: 169; BARRON 1975: 434). Barron considered the 1879 description by Provancher as a repetition of the description of *P. borealis* PROVANCHER 1877, both descriptions thus referring to the same taxon. But this opinion is not followed here for the following reasons: The names are different. Provancher did not refer in his second to his first description, as he did in other cases (also in his 1879 paper). The descriptions are different, because in 1877 a large ♂ with a black scape and black coxae, and in 1879 a much smaller ♀ with a red marked scape and red coxae are described (see also CARLSON 1979: 693). Contrary to the statement by Barron, the specimen labelled "370" agrees with the 1879 description, except that it is a ♂.

Valid name: *Barycnemis rugosa* (PROVANCHER 1879) (syn. nov.).

***Porizon borealis* PROVANCHER 1877**

*Porizon borealis* PROVANCHER 1877: 14 (preocc. by *Porizon borealis* ZETTERSTEDT 1838).

Lectotype (♂) here designated: "444" (from Québec), "*Porizon boreale* PROV." (!) (one antenna, one front wing and parts of the legs missing) (Univ. Laval). This specimen agrees with the 1877 description.

Valid name: *Barycnemis gravipes* (GRAVENHORST 1829) (syn. nov.). TOWNES (1945: 704) and subsequent authors, who synonymized *P. borealis* PROVANCHER 1877 with *P. rugosum* PROVANCHER, had mixed up the taxa *P. boreale* and *P. borealis* and/or their types, which was possibly caused by the fact that apparently the name labels of both type specimens have been interchanged.

***Porizon canaliculatus* VIERECK 1903**

*Porizon canaliculatus* VIERECK 1903: 93.

Holotype (♂): "Beulah, 8/17 N.M., H. Skinner", "Type No. 4896", "*Porizon canaliculatus* VIER. Type" (one antenna missing) (Acad. Philadelphia).

Valid name: *Barycnemis harpura* (SCHRANK 1802) (CARLSON 1979: 693).

***Porizon contracheli* RILEY 1871**

*Porizon contracheli* RILEY 1871: 28.

Lectotype (♀) here designated: "Collection C.V. Riley", "*Porizon contracheli* mihi ♀ from Trimble" (from New Jersey) (greater parts of antennae and legs missing) (Mus. Washington). Four Paralectotypes (3 ♀♀, 1 ♂) are also preserved in the Washington museum.

Valid name: *Tersilochus (Tersilochus) contracheli* (RILEY 1871) (TOWNES 1945: 705).

***Porizon elongatum* PROVANCHER 1886**

*Porizon elongatum* PROVANCHER 1886: 91.

Lectotype (♂): "1226" (from Québec), "*Porizon elongatum* PROV." (greater parts of antennae missing) (Univ. Laval) (GAHAN & ROHWER 1918: 170; BARRON 1975: 465).

Valid name: *Barycnemis harpura* (SCHRANK 1802) (BARRON 1975: 465).

***Porizon rugosum* PROVANCHER 1879**

*Porizon rugosum* PROVANCHER 1879: 205-206.

Lectotype (♂!): "445" (from Québec), "*Porizon rugosum* PROV." (Univ. Laval) (GAHAN & ROHWER 1918: 170; BARRON 1975: 558).

Valid name: *Barycnemis rugosa* (PROVANCHER 1879) (BARRON 1975: 558).

***Spinolochus distolatus* TORGERSEN 1973**

*Spinolochus distolatus* TORGERSEN 1973: 124.

Holotype (♀): "Dry Gulch, Alaska, Date: 8-25-69", "white spruce type, window flight trap, Beckwith, coll." (Mus. Washington).

Valid name: *Spinolochus distolatus* TORGERSEN 1973.

***Stethanyx nearctica* TOWNES 1971**

*Stethanyx nearctica* TOWNES 1971: 43.

Holotype (♀): "Takoma Pk., Md. X.26-1946 H. & M. Townes" (Mus. Gainesville).

Valid name: *Stethanyx nearctica* TOWNES 1971.

***Stilpnus deficiens* PROVANCHER 1888**

*Stilpnus deficiens* PROVANCHER 1888: 359.

Lectotype (♀): "Type *Stilpnus deficiens* PR. No. 54", "P. 663" (from Ottawa) (greater parts of antennae missing) (Mus. Ottawa) (GAHAN & ROHWER 1918: 196; BARRON 1975: 460; SARAZIN 1987: 92).

Valid name: *Tersilochus (Tersilochus) deficiens* (PROVANCHER 1888) (TOWNES 1945: 706).

***Tersilochus errabundus* PROVANCHER 1886**

*Tersilochus errabundus* PROVANCHER 1886: 92.

Lectotype (♂!): "Type *Tersilochus errabundus* PR. No. 80", "P. 496" (from Ottawa) (Mus. Ottawa) (GAHAN & ROHWER 1918: 199; BARRON 1975: 466; SARAZIN 1987: 92). The Paralectotype (♂) mentioned by Barron from the Laval university belongs to the same species.

Valid name: *Barycnemis gravipes* (GRAVENHORST 1829) (TOWNES 1971: 40).

***Tersilochus maturus* PROVANCHER 1886**

*Tersilochus maturus* PROVANCHER 1886: 92.

Lectotype (♀): "106", "1227" (from Hull, Québec), "*Tersilochus maturus* PROV." (greater parts of antennae missing) (Univ. Laval) (GAHAN & ROHWER 1918: 199; BARRON 1975: 506).

Valid name: *Probles maturus* (PROVANCHER 1886) (TOWNES 1971: 38).

***Tersilochus montanus* ASHMEAD 1890**

*Tersilochus montanus* ASHMEAD 1890: 23.

Holotype (♂): "Cimarron Col" (near Montrose) (greater parts of legs missing) (Mus. Washington) (TOWNES 1945: 707; CARLSON 1979: 697).

Valid name: *Tersilochus (Pectinolochus) montanus* (ASHMEAD 1890).

***Tersilochus pallipes* PROVANCHER 1882**

*Tersilochus pallipes* PROVANCHER 1882: 367 (preocc. by *Tersilochus pallipes* HOLMGREN 1860).

Lectotype (♀): "676" (from Québec), "*Tersilochus pallipes* PROV." (Univ. Laval) (GAHAN & ROHWER 1918: 199; BARRON 1975: 526).

Valid name: *Probles provancheri* (ASHMEAD 1890) (comb. nov.).

***Zasternaulax simplicicornis* VIERECK 1912**

*Zasternaulax simplicicornis* VIERECK 1912: 647.

Holotype (♂): "8574. Hopk. U.S.", "Ex *Pissodes* species", "Columbia Falls Mont.", "Josef Brunner, collector", "Type No. 14751 U.S.N.M." (Mus. Washington) (TOWNES 1945: 705).

Valid name: *Barycnemis linearis* ASHMEAD 1895 (syn. nov.).

### Zusammenfassung

Die Typen von 24 aus Nordamerika beschriebenen Arten der Tersilochinae (Hymenoptera, Ichneumonidae) werden revidiert. Für fünf Arten werden Lectotypen festgelegt, und vier neue Synonymien werden angegeben.

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