

## ANNOTATED CHECKLIST OF FOSSIL AND RECENT SPECIES OF THE FAMILY NEMONYCHIDAE (COLEOPTERA) FROM THE WORLD FAUNA

A.A. Legalov

[Легалов А.А. Аннотированный список вымерших и рецентных видов семейства Nemonychidae (Coleoptera) мировой фауны] Institute of Animal Systematics and Ecology, Siberian Zoological Museum, Frunze street, 11, 630091, Novosibirsk, Russia  
Институт систематики и экологии животных СО РАН, Сибирский зоологический музей, Фрунзе, 11, 630091, Новосибирск, Россия. E-mail: legalov@ngs.ru

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**Ключевые слова:** *Nemonychidae, Coleoptera, мировая фауна, аннотированный список.*

**Summary.** An annotated checklist of the family Nemonychidae is presented, with a key to the supraspecific taxa provided. New subtribe Brarina Legalov, subtrib.n. (type genus: *Brarus* Kuschel, 1997) of the tribe Mecomacerini Kuschel, 1994, new genera *Chinocimberis* Legalov, gen.n. (type species: *Brenthorrhinoides angustipeeteris* Liu, Ren, Tan, 2006) and *Renicimberis* Legalov, gen.n. (type species: *Brenthorrhinoides latipeeteris* Liu, Ren, Tan, 2006), new subgenus *Amerocimberis* Legalov, subgen.n. (type species: *Rhinomacer pilosus* LeConte, 1876) of the genus *Cimberis* des Gozis, 1881 are described. New synonym *Paroxycorynoides* L. Arnoldi, 1977, syn.n. for *Distenorrhinus* L. Arnoldi, 1977 is presented. New systematic placements are proposed: *Metroxenooides* Gratshev, Zherikhin, Jarzembowski, 1997, placem.n. and *Libanorhinus* Kuschel & Poinar, 1993, placem.n. are transferred from Nemonychidae incertae sedis to the tribe Mecomacerini; *Oxycorynoides lineatipunctatus* (L. Arnoldi, 1977), placem.n. and *O. retardatus* (Zherikhin, 1993), placem.n. are transferred from the genus *Belonotaris* to the genus *Oxycorynoides*. Change of status: Nanophydini L. Arnoldi, 1977, stat.n. is downgraded from subfamily to tribe. Resurrected status: Procurculionini L. Arnoldi, 1977, stat.res. 6 new combinations are proposed: *Distenorrhinus elegans* (L. Arnoldi, 1977), comb.n., *Oxycorynoides lineatipunctatus* (L. Arnoldi, 1977), comb.n., *O. retardatus* (Zherikhin, 1993), comb.n., *Chinocimberis angustipeeteris* (Liu, Ren, Tan, 2006), comb.n., *Ch. magnoculi* (Liu, Ren, Tan, 2006), comb.n. and *Renicimberis latipeeteris* (Liu, Ren, Tan, 2006), comb.n.

**Резюме.** Составлен систематический список семейства Nemonychidae. Представлен определитель надвидовых таксонов. Описаны новая подтриба Brarina Legalov, subtrib.n. (типовой род: *Brarus* Kuschel, 1997) трибы Mecomacerini Kuschel, 1994, новые рода *Chinocimberis* Legalov, gen.n. (типовой вид: *Brenthorrhinoides angustipeeteris* Liu, Ren, Tan, 2006) и *Renicimberis* Legalov, gen.n. (типовой вид: *Brenthorrhinoides latipeeteris* Liu, Ren, Tan, 2006), а также новый подрод *Amerocimberis* Legalov, subgen.n. (типовой вид: *Rhinomacer pilosus* LeConte, 1876) рода *Cimberis* des Gozis, 1881. *Paroxycorynoides* L. Arnoldi, 1977, syn.n. сведен в синонимы к *Distenorrhinus* L. Arnoldi, 1977. Изменено систематическое положение родов *Metroxenooides* Gratshev, Zherikhin, Jarzembowski, 1997, placem.n. и *Libanorhinus* Kuschel & Poinar, 1993, placem.n. (из Nemonychidae incertae sedis в трибу Mecomacerini) и видов *Oxycorynoides lineatipunctatus* (L. Arnoldi, 1977), placem.n. и *O. retardatus* (Zherikhin, 1993), placem.n. (из рода *Belonotaris* в род *Oxycorynoides*). Изменен систематический статус Nanophydini L. Arnoldi, 1977, stat.n. (из подсемейства до трибы). Восстановлен систематический статус Procurculionini L. Arnoldi, 1977, stat.res. Установлены 6 новых комбинаций: *Distenorrhinus elegans* (L. Arnoldi, 1977), comb.n., *Oxycorynoides lineatipunctatus* (L. Arnoldi, 1977), comb.n., *O. retardatus* (Zherikhin, 1993), comb.n., *Chinocimberis angustipeeteris* (Liu, Ren, Tan, 2006), comb.n., *Ch. magnoculi* (Liu, Ren, Tan, 2006), comb.n. и *Renicimberis latipeeteris* (Liu, Ren, Tan, 2006), comb.n.

### INTRODUCTION

Family Nemonychidae, which had emerged in the Jurassic, is the most primitive family of the superfamily Curculionoidea [Kuschel, 1983; Legalov, 2006; Zherikhin, 1993]. The majority of recent Nemonychidae develop in the sporophylls inside dehiscing male conifer strobili of coniferous [Oberprieler, Marvaldi, Anderson, 2007].

Family Nemonychidae comprises 128 described species in 45 genera; the group is divisible into 6 subfamilies with 8 tribes. 72 recent species of the family Nemonychidae are distributed in North Africa, Europe, Caucasus, Asia minor, Middle, Central and North Asia, North, Central and South America, Australia, New Guinea, New Caledonia and New Zealand (fig. 1). The fossil forms (56 described and few undescribed) are known from Europe (Cretaceous: England, Spain), Central (Jurassic: Kazakhstan; Cretaceous: Mongolia) and North Asia (Cretaceous: Russia), North America (Eocene: USA: Green River) and South America (Cretaceous: Brazil) (fig. 2). 46 species

are described from the Jurassic, 7 species from the Cretaceous and 3 species from Jurassic or Cretaceous.

In this study the data from the following works were used: Alonso-Zarazaga & Lyal [1999]; Bedel [1882-1888]; Arnoldi [1977]; Biondi [1994]; Blatchley & Leng [1916]; Dalla Torre & Voss [1937]; Desbrochers des Loges [1869]; Dieckmann [1974]; Gratshev & Zherikhin [1995, 1996, 2000, 2003]; Gratshev, Zherikhin, Jarzembowski [1997]; Hamilton [1983, 1994]; Kizub & Nazarenko [2005]; Kuschel [1954, 1959, 1983, 1989, 1993, 1994, 1995, 2000, 2003]; Kuschel & Poinar [1993]; Kuschel & May [1997]; Lea [1926]; LeConte [1876, 1880]; Legalov [1998, 2002, 2009]; Legalov & Opanassenko [2000]; Legalov & Sitnikov [2000]; Legalov & Telnov [2004]; Liu, Ren, Shih [2006]; Liu, Ren, Tan [2006]; Morris [1990]; Morrone [1997]; O'Brien & Wibmer [1982]; Opanassenko [1973, 1976]; Ponomarenko, Zherikhin, Kirejtshuk [2004]; Reitter [1916]; Ren [1995]; Schilsky [1903]; Semenov [1900]; Solsky [1880]; Ter-Minassian [1984]; Thompson [1992]; Voss [1922, 1932, 1937, 1952, 1965, 1974]; Wibmer &



Fig. 1. Distribution of recent *Nemonychidae*.  
 Рис. 1. Распространение современных видов *Nemonychidae*.



Fig. 2. Distribution of fossil *Nemonychidae*.  
 Circle – locations of the finds of Jurassic taxa, pentagon – locations of the finds of Cretaceous taxa, square – location of the find of Eocene taxa.  
 Рис. 2. Распространение ископаемых видов *Nemonychidae*.  
 Кругок – находки юрских таксонов, пятиугольник – меловых, квадрат – эоценовых таксонов.

## RESULTS

### Family Nemonychidae Bedel, 1820

#### Key to supraspecific taxa of the family Nemonychidae

1. Procoxae located in the middle or closer to apical margin of prothorax. (Brenthorrhinae) ..... 2
  - procoxae located closer to basal margin of prothorax ..... 9
2. Procoxae located closer to apical margin of prothorax. Mandibles narrow. (Procurculionini) ..... 3
  - procoxae located in the middle of prothorax. Mandibles wide. (Brenthorrhinini) ..... 4
3. 1st-2nd segments of funicle widened. Femora narrow. .... *Pseudobrenthorrhinus*
  - 1st-2nd segments of funicle not widened. Femora widened ..... *Procurculio*
4. Antennae inserted subapically. Rostrum weakly elongated ..... *Brenthorrhinus*
  - antennae inserted on the middle or beyond the middle of rostrum. Rostrum long ..... 5
5. Body narrower. Pronotum without lateral carina or with weak lateral carina. (*Distenorrhinus*) ..... 6
  - body wider. Pronotum with strong lateral carina .... 8
6. Protibiae widened, biconcave. Profemora strongly widened ..... *Parabrenthorrhinus*
  - tibiae narrow, straight. Profemora weakly widened or not widened ..... 7
7. Larger (greater than 5 mm in length). Rostrum shorter. *Asternorrhinus*
  - smaller (less than 5 mm). Rostrum longer ..... *Distenorrhinus* s. str.
8. Anterior margin of prothorax strongly curved. Labrum elongated ..... *Microbrenthorrhinus*
  - anterior margin of prothorax straight. Labrum not elongated ..... *Megabrenthorrhinus*
9. Antennae inserted in the base third of rostrum or submedially ..... 10
  - antennae inserted subapically ..... 22
10. Antennae inserted in the base third of rostrum. Elytra without striae. Mandibles inserted dorsally. (Doydirhynchinae) ..... 11
  - antennae inserted in the middle of rostrum. Elytra with striae. (Eobelinae) ..... 12
11. Labrum large, subquadrate. Maxillary palps 4-segmented. 4th ventrite in females with one or two sex patches ..... *Lecontellus*
  - labrum very small, strongly transverse. Maxillary palps 3-segmented. Ventrites in females without sex patches ..... *Doydirhynchus*
12. Metathorax short. 5th ventrite elongated. (Nanophydini) ..... *Nanophydes*
  - metathorax long. 5th ventrite not elongated ..... 13
13. Rostrum thin and long. Pronotum with weak lateral carinae. Larger (6.2-10.2 mm). (Eobelini) ..... 14
  - rostrum thicker and short. Pronotum with sharper lateral carinae. Smaller (2.1-5.5 mm). (Oxycorynoidini) ..... 18
14. Profemora not widened ..... *Eobelus*
  - profemora widened ..... 15
15. 1st segment of protarsi widened and elongated. .... *Archaeorrhynchus*
  - 1st segment of protarsi of usual shape ..... 16
16. Metatibiae biconcave, with long mucro ..... *Probelus*
  - metatibiae almost straight or weakly curved, without long mucro ..... 17
17. Rostrum straight. Elytra flattened ..... *Probelopsis*
  - rostrum curved. Elytra weakly convex ... *Belonotaris*
18. Body elongated ..... *Microprobelus*
  - body wider ..... 19
19. Tibiae curved ..... *Scelocampus*
  - tibiae straight ..... 20
20. Profemora widened ..... *Ampliceps*
  - profemora not widened ..... 21
21. Eyes small. Tarsi not elongated ..... *Oxycorynoides*
  - eyes large. Tarsi elongated ..... *Cratomacer*
22. Elytra without striae. Claws with or without teeth ..... 23
  - elytra with distinct striae. Claws with teeth. (Rhino-rhynchinae) ..... 28
23. Rostrum short. Claws with teeth. Mesocoxal cavities open laterally to pleurites. (Nemonychinae) ..... *Nemonyx*
  - rostrum long. Claws without teeth. Mesocoxal cavities closed. (Cimberindinae) ..... 24
24. Pronotum wide ..... *Chinocimberis*
  - pronotum narrower ..... 25
25. Mandibles curved at the outer edge in dorsal and lateral view, each armed with a strong tooth at the inner edge. (*Cimberis*) \* ..... 26
  - mandibles angulate at the outer edge in dorsal or lateral view, in both unarmed at the inner edge ..... 27
26. Antennae inserted near apex of rostrum in males and females. Labrum almost rectangular ..... *Cimberis* s. str.
  - antennae inserted closer to apex of rostrum in males than in females. Labrum almost trapezoidal ..... *Amerocimberis*
27. Labrum trapezoidal or broadly rounded at apex. Setiferous sex patches usually present at one or two ventrites in females\* ..... *Pityomacer*
  - labrum triangular, pointed at apex. Setiferous sex patches absent in females ..... *Acromacer*
28. Antennae inserted closer to apex of rostrum. Labrum with 3 or more pairs of setae. (Mecomacerini) ..... 29
  - antennae inserted further from apex of rostrum. Labrum with 2 pairs of setae. (Rhinorhynchini) ..... 39
29. Rostrum reduced. Tibiae widened. (*Brarina*) ... *Brarus*
  - rostrum long. Tibiae not widened. (Mecomacerina) .. ..... 30
30. Pronotum wide. Striae of elytra weak .... *Renicimberis*
  - pronotum narrower ..... 31
31. Points in elytral striae large ..... 32
  - points in elytral striae small ..... 33
32. Rostrum long. Eyes smaller. Head and pronotum small punctuate ..... *Libanorhinus*
  - rostrum short. Eyes larger. Head and pronotum largely punctuate ..... *Metrioxenoides*
33. Rostrum much longer than pronotum

- ..... *Rhynchitoplesius*  
 – rostrum shorter than pronotum or of equal length ..... 34  
 34. Rostrum narrowed before basis ..... *Rhynchitomacerinus*  
 – rostrum not narrowed before basis ..... 35  
 35. Rostrum not widened at apex, stronger flattened ... 36  
 – rostrum widened at apex, weaker flattened ..... 37  
 36. Frons considerably broader than rostrum behind antennal insertions. Rostrum distinctly saddled against frons, cylindrical at middle of postrostrum, more than 1.7 times longer than apical width. Elytral colouring alike in both sexes\*\* ..... *Eutactobius*  
 – frons as broad as width of rostrum behind antennal insertions. Rostrum not saddled (not depressed in lateral view) against frons, tapering toward apex in dorsal and lateral views, less than 1.7 times longer than apical width. Elytra uniformly black in ♂ and at least partly reddish brown in ♀ ..... *Bunyaeus*  
 37. Pronotum transversal ..... *Aragomacer*  
 – pronotum longer than wide ..... 38  
 38. Rostrum narrower, stronger widened at apex ..... *Mecomacer*  
 – rostrum wider, weaker widened at apex .... *Notomacer*  
 39. Rostrum strongly widened at apex. Antennae inserted closer to rostrum apex ..... *Rhynchitomacer*  
 – rostrum weakly widened at apex. Antennae inserted further to rostrum apex ..... 40  
 40. Mandibles bifurcated at apex ..... *Nannomacer*  
 – mandibles acuminate at apex ..... 41  
 41. Frons very wide ..... 42  
 – frons less widened ..... 43  
 42. Prosternal process in males directed forward. Larger (3.0-4.2 mm). Body wider ..... *Atopomacer*  
 – prosternal process in males directed to procoxae. Smaller (1.5-2.7 mm). Body narrower ... *Rhinorhynchus*  
 43. Mesonotum with 2 symmetrical stridulatory files\*\* ..... *Basiliorhinus*  
 – mesonotum with 1 stridulatory file or 2 asymmetrical files 44  
 44. Rostrum deeply saddled at the base. Postrostrum with forward-directed pubescence. Frons much wider between eyes than apex of rostrum. Internal sac of aedeagus with 1 pair of sclerites\*\* ..... *Basilioeues*  
 – rostrum shallowly saddled at the base. Postrostrum with pubescence directed backwards. Frons not wider between eyes than apex of rostrum. Internal sac of aedeagus with 2 pairs of sclerites ..... *Pagomacer*

\*by Kuschel [1989]

\*\*by Kuschel [1994]

#### Subfamily Eobelinae L. Arnoldi, 1977

Eobelidae L. Arnoldi, 1977: 144

#### Tribe Eobelini L. Arnoldi, 1977

Eobelidae L. Arnoldi, 1977: 144

#### Genus *Archaeorrhynchus* Martynov, 1926

*Archaeorrhynchus* Martynov, 1926: 23

Type species: *Archaeorrhynchus tenuicornis* Martynov, 1926

#### *Archaeorrhynchus acutirostris* L. Arnoldi, 1977

*Archaeorrhynchus acutirostris* L. Arnoldi, 1977: 148

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### *Archaeorrhynchus latitarsis* L. Arnoldi, 1977

*Archaeorrhynchus latitarsis* L. Arnoldi, 1977: 150

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### *Archaeorrhynchus paradoxopus* L. Arnoldi, 1977

*Archaeorrhynchus paradoxopus* L. Arnoldi, 1977: 149

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### *Archaeorrhynchus tenuicornis* Martynov, 1926

*Archaeorrhynchus tenuicornis* Martynov, 1926: 25

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### Genus *Belonotaris* L. Arnoldi, 1977

*Belonotaris* L. Arnoldi, 1977: 154

Type species: *Belonotaris punctatissimus* L. Arnoldi, 1977

#### *Belonotaris karatavicus* L. Arnoldi, 1977

*Belonotaris karatavicus* L. Arnoldi, 1977: 156

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### *Belonotaris punctatissimus* L. Arnoldi, 1977

*Belonotaris punctatissimus* L. Arnoldi, 1977: 155

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### Genus *Eobelus* L. Arnoldi, 1977 (Col. pl. I, a)

*Eobelus* L. Arnoldi, 1977: 147

Type species: *Eobelus longipes* L. Arnoldi, 1977

#### *Eobelus longipes* L. Arnoldi, 1977

*Eobelus longipes* L. Arnoldi, 1977: 147

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### Genus *Probelopsis* L. Arnoldi, 1977

*Probelopsis* L. Arnoldi, 1977: 153

Type species: *Probelopsis acutiapex* L. Arnoldi, 1977

#### *Probelopsis acutiapex* L. Arnoldi, 1977

*Probelopsis acutiapex* L. Arnoldi, 1977: 154

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### Genus *Probelus* L. Arnoldi, 1977

*Probelus* L. Arnoldi, 1977: 151

Type species: *Probelus curvispinus* L. Arnoldi, 1977

#### *Probelus curvispinus* L. Arnoldi, 1977

*Probelus curvispinus* L. Arnoldi, 1977: 151

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### *Probelus longitarsus* L. Arnoldi, 1977

*Probelus longitarsus* L. Arnoldi, 1977: 152

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### *Probelus tibialis* L. Arnoldi, 1977

*Probelus tibialis* L. Arnoldi, 1977: 152

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### Tribe Oxycorynoidini L. Arnoldi, 1977

Oxycorynoidinae L. Arnoldi, 1977: 159

#### Genus *Ampliceps* L. Arnoldi, 1977

*Ampliceps* L. Arnoldi, 1977: 166

Type species: *Ampliceps dentitibia* L. Arnoldi, 1977

#### *Ampliceps dentitibia* L. Arnoldi, 1977

*Ampliceps dentitibia* L. Arnoldi, 1977: 166

**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
***Ampliceps furcitibia* L. Arnoldi, 1977**  
*Ampliceps furcitibia* L. Arnoldi, 1977: 167  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).

**Genus *Cratomacer* Zherichin & Gratshev, 2004**  
*Cratomacer* Zherichin & Gratshev, 2004: 59  
Type species: *Cratomacer immersus* Zherichin & Gratshev, 2004

***Cratomacer ephippiger* Zherichin & Gratshev, 2004**  
*Cratomacer ephippiger* Zherichin & Gratshev, 2004: 61  
**Distribution.** Early Cretaceous (Brazil: Santana).  
***Cratomacer immersus* Zherichin & Gratshev, 2004**  
*Cratomacer immersus* Zherichin & Gratshev, 2004: 60  
**Distribution.** Early Cretaceous (Brazil: Santana).

**Genus *Oxycorynoides* L. Arnoldi, 1977** (Col. pl. I, d)  
*Oxycorynoides* L. Arnoldi, 1977: 159  
Type species: *Oxycorynoides similis* L. Arnoldi, 1977

***Oxycorynoides brevipes* L. Arnoldi, 1977**  
*Oxycorynoides brevipes* L. Arnoldi, 1977: 160  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
***Oxycorynoides lineatipunctatus* (L. Arnoldi, 1977), comb.n., placem.n.**

*Belonotaris lineatipunctatus* L. Arnoldi, 1977: 155  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
**Remarks.** This species and *Belonotaris retardatus* belong to the genus *Oxycorynoides* judging by shorter rostrum and by small size of body.

***Oxycorynoides mongolicus* Zherikhin, 1986**  
*Oxycorynoides mongolicus* Zherikhin, 1986: 107  
**Distribution.** Early Cretaceous (Mongolia).

***Oxycorynoides ponomarenkoi* L. Arnoldi, 1977**  
*Oxycorynoides ponomarenkoi* L. Arnoldi, 1977: 161  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
***Oxycorynoides retardatus* (Zherikhin, 1993), comb.n., placem.n.**  
*Belonotaris retardatus* Zherikhin, 1993: 21  
**Distribution.** Early Cretaceous (Khabarovskii krai: Khetana).

***Oxycorynoides rohdendorfi* L. Arnoldi, 1977**  
*Oxycorynoides rohdendorfi* L. Arnoldi, 1977: 161  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
***Oxycorynoides similis* L. Arnoldi, 1977**  
*Oxycorynoides similis* L. Arnoldi, 1977: 159  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
***Oxycorynoides zherichini* L. Arnoldi, 1977**  
*Oxycorynoides zherichini* L. Arnoldi, 1977: 162  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).

**Genus *Microprobelus* Liu, Ren, Shih, 2006**  
*Microprobelus* Liu, Ren, Shih, 2006: 885  
Type species: *Microprobelus liuae* Liu, Ren, Shih, 2006

***Microprobelus liuae* Liu, Ren, Shih, 2006**  
*Microprobelus liuae* Liu, Ren, Shih, 2006: 886  
**Distribution.** Late Jurassic (China: Liaoning Prov.).

**Genus *Scelocamptus* L. Arnoldi, 1977**  
*Scelocamptus* L. Arnoldi, 1977: 164

Type species: *Scelocamptus tenuirostris* L. Arnoldi, 1977

***Scelocamptus curvipes* L. Arnoldi, 1977**  
*Scelocamptus curvipes* L. Arnoldi, 1977: 165  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).  
***Scelocamptus tenuirostris* L. Arnoldi, 1977**  
*Scelocamptus tenuirostris* L. Arnoldi, 1977: 164  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).

**Tribe Nanophydini L. Arnoldi, 1977, stat.n.**  
Nanophydinae L. Arnoldi, 1977: 173

**Genus *Nanophydes* L. Arnoldi, 1977** (Col. pl. I, c)  
*Nanophydes* L. Arnoldi, 1977: 173  
Type species: *Nanophydes ovatus* L. Arnoldi, 1977

***Nanophydes ovatus* L. Arnoldi, 1977**  
*Nanophydes ovatus* L. Arnoldi, 1977: 173  
**Distribution.** Late Jurassic (Kazakhstan: Karatau).

**Subfamily Doydirhynchinae Pierce, 1916**  
Doydirhynchoidea Pierce, 1916: 463  
Type genus: *Doydirhynchus* Dejean, 1821

**Genus *Doydirhynchus* Dejean, 1821**  
*Doydirhynchus* Dejean, 1821: 79

Type species: *Rhynchites austriacus* Olivier, 1807  
*Doydirhynchus* Schoenherr, 1833: 240  
Type species: *Rhynchites austriacus* Olivier, 1807  
*Doedycorhynchus* Labram & Imhoff, 1843: 3  
Type species: *Rhynchites austriacus* Olivier, 1807  
*Doedycorhynchus* Bedel, 1883: 18  
Type species: *Rhynchites austriacus* Olivier, 1807

***Doydirhynchus austriacus* (Olivier, 1807)**

*Rhynchites austriacus* Olivier, 1807: 27  
*Doydirhynchus austriacus* v. *castaneus* Germar, 1833: 242  
*Doydirhynchus karamani* Stierlin, 1886: 229;  
*Doydirhynchus austriacus cilicicus* Daniel & Daniel, 1903: 327;  
*Doydirhynchus austriacus* v. *lutescens* Schilsky, 1903: 92  
*Doydirhynchus austriacus* v. *pallidicolor* Pic, 1905: 190  
*Doydirhynchus austriacus* v. *fulvipennis* Reitter, 1916: 260  
*Doydirhynchus austriacus* f. *testacea* Voss, 1932: 72

**Distribution.** Western Palaearctic.

**Host plants.** *Pinus halepensis*, *P. pinaster*, *P. sylvestris*, *P. uncinata* [Dieckmann, 1974; Kuschel, 1993].

***Doydirhynchus bicolor* Pic, 1905**

*Doydirhynchus austriacus* v. *bicolor* Pic, 1905: 190  
*Doydirhynchus austriacus* v. *testaceus* Pic, 1905: 190  
**Distribution.** Northern Africa.

**Host plants.** Unknown.

**Genus *Lecontellus* Kuschel, 1989**

*Lecontellus* Kuschel, 1989: 125  
Type species: *Doydirhynchus byturoides* LeConte, 1880

***Lecontellus byturoides* (LeConte, 1880)**

*Doydirhynchus byturoides* LeConte, 1880: 215  
**Distribution.** USA.

**Host plants.** *Pinus ponderosa*, *P. radiata* [Kuschel, 1989].

***Lecontellus pinicola* Kuschel, 1989**

*Lecontellus pinicola* Kuschel, 1989: 156

**Distribution.** USA (California).

**Host plants.** *Pinussabiniana* [Kuschel, 1989].

***Lecontellus sleveni* (Martin, 1930)**

*Diodyrhynchus sleveni* Martin, 1930: 130

**Distribution.** USA (California).

**Host plants.** Unknown.

**Subfamily Nemonychinae Bedel, 1820**

Nemonychidae Bedel, 1820: 3

Type genus: *Nemonyx* Redtenbacher, 1845

**Genus *Nemonyx* Redtenbacher, 1845**

*Nemonyx* Redtenbacher, 1845: 96

Type species: *Rhinomacer lepturoides* Fabricius, 1801

*Nematomyx* Agassiz, 1846: 247

Type species: *Rhinomacer lepturoides* Fabricius, 1801

***Nemonyx canescens* Solsky, 1881**

*Nemonyx canescens* Solsky, 1881: 263

**Distribution.** Kazakhstan, Uzbekistan, Turkmenistan.

**Host plants.** *Consolida camptocarpa* [Ter-Minassian, 1984; Kuschel, 1993].

***Nemonyx lepturoides* (Fabricius, 1801)**

*Rhinomacer lepturoides* Fabricius, 1801: 429

*Nemonyx grisescens* Reitter, 1899: 209

**Distribution.** Western Palaearctic.

**Host plants.** *Consolida regalis*, *C. paniculata*, *C. divariacata* [Dieckmann, 1974; Ter-Minassian, 1984; Biondi, 1994; Kuschel, 1993].

***Nemonyx scutellatus* Abeille, 1901**

*Nemonyx scutellatus* Abeille, 1901: 234

**Distribution.** Tunisia.

Host plants. Unknown.

***Nemonyx semirufus* Pic, 1898**

*Nemonyx semirufus* Pic, 1898: 74

*Nemonyx variicolor* Abeille, 1898: 258

**Distribution.** Algeria.

**Host plants.** *Delphinium peregrinum* [Kuschel, 1993].

**Subfamily Cimberindinae des Gozis, 1882**

Cimberidae des Gozis, 1882: 58

Type genus: *Cimberis* des Gozis, 1881

**Tribe Cimberindini des Gozis, 1882**

Cimberidae des Gozis, 1882: 58

Type genus: *Cimberis* des Gozis, 1881

**Genus *Chinocimberis* Legalov, gen.n.**

Type species: *Brenthorrhinoides angustipecteris* Liu, Ren, Tan, 2006

**Remarks.** For the description, see that of *Brenthorrhinoides angustipecteris* and *B. magnoculi* [Liu, Ren, Tan, 2006: 608-609].

**Diagnosis.** The new genus is close to genus *Cimberis* but differs by the wide pronotum.

**Etymology.** The name is formed from the words "Chinese" and "cimberis".

***Chinocimberis angustipecteris* (Liu, Ren, Tan, 2006), comb.n.**

*Brenthorrhinoides angustipecteris* Liu, Ren, Tan, 2006: 607

**Distribution.** Late Jurassic or Early Cretaceous (China: Liaoning Prov.).

***Chinocimberis magnoculi* (Liu, Ren, Tan, 2006), comb.n.**

*Brenthorrhinoides magnoculi* Liu, Ren, Tan, 2006: 607

**Distribution.** Late Jurassic or Early Cretaceous (China: Liaoning Prov.).

**Genus *Cimberis* des Gozis, 1881**

*Cimberis* des Gozis, 1881: 112

Type species: *Rhinomacer attelaboides* Fabricius, 1787

*Rhinomacer* Olivier, 1807: 457 nec Geoffroy, 1762

Type species: *Rhinomacer attelaboides* Fabricius, 1787

*Neocimberis* O'Brien & Wibmer, 1982: 3, 18

Type species: *Rhinomacer attelaboides* Fabricius, 1787

**Subgenus *Cimberis* s. str.**

***Cimberis* (*Cimberis*) *attelaboides* (Fabricius, 1787)**

*Rhinomacer attelaboides* Fabricius, 1787: 123

*Curculio rhinomacer* Paykull, 1792: 126

*Cimberis attelaboides* v. *canescens* Semenov, 1900: 129

**Remarks.** Male from the collection of Zoological Institute, Russian Academy of Sciences, St. Petersburg, with label "N. Korea, prov., South Hampyong, Toxong-Omdonzi, 1800 m, 27.V.1990, S.V. Murzin" is the easternmost record of Nemonychidae in Eurasia.

**Distribution.** Eurasia.

**Host plants.** *Pinus nigra*, *P. pinaster*, *P. sylvestris*, *P. uncinata* [Dieckmann, 1974; Opanassenko, 1976; Perris, 1856; Kuschel, 1993].

***Cimberis* (*Cimberis*) *elongata* (LeConte, 1876)**

*Rhinomacer elongatus* LeConte, 1876: 2

**Distribution.** Canada, USA.

**Host plants.** *Pinus banksiana*, *P. contorta*, *P. strobes*, *P. taeda*, *P. virginiana* [Kuschel, 1989].

***Cimberis* (*Cimberis*) *pallidipennis* (Blatchley & Leng, 1916)**

*Rhinomacer pallidipennis* Blatchley & Leng, 1916: 50

**Distribution.** Canada, USA.

Host plants. Unknown.

***Cimberis* (*Cimberis*) *decipiens* Kuschel, 1989**

*Cimberis decipiens* Kuschel, 1989: 133

**Distribution.** Canada, USA.

**Host plants.** *Pinus monticola* [Kuschel, 1989].

**Subgenus *Amerocimberis* Legalov, subgen.n.**

Type species: *Rhinomacer pilosus* LeConte, 1876

**Description.** Body brown or black, with semierect light setae. Labrum almost trapezoidal. Rostrum long, thin, weakly curved, small punctate, without carina. Apex widened, sparsely punctate, flattened. Antennae inserted closer to apex of rostrum in males than in females. Frons wide, convex, small and densely punctate. Eyes strongly convex. Vertex densely and small punctate. Temples short. Antennae long, reaching humeri. Scapus and funicle segments trapezoidal, more or less elongated. Clava not compact, elongated. 1st and 2nd segments al-

most trapezoidal. 3rd segment tear-shaped, longer than 2nd segment, weakly pointed. Pronotum almost rectangular, of equal length and width or weakly transversal, weakly narrowed to basis and apex, lustrous, small and densely punctate. Greatest width in middle. Sides almost direct. Scutellum almost rectangular, small. Elytra elongated. Humeri weakly convex. Greatest width in middle or behind middle. Intervals wide, flat, lustrous, punctate. Scutellar striole and striae absent. Thorax small and densely punctate. Prothorax in males with weak prosternal process before procoxae. Precoxal part longer than postcoxal part. Metepisternum narrow. Abdomen convex, small punctate. 1st and 2nd ventrite longer. 3rd-5th ventrite shorter. 3rd and 4th ventrites in females with sex patches. 5th ventrite wide, with weak impression in males. Legs long. Femora weakly widened. Protibiae almost straight, weakly widened to apex. Meso- and metatibiae shorter, weakly curved. Tarsi long. 1st segment elongated. 2nd segment triangular. 3rd segment bilobed. Clausal segment elongated. Claws with teeth. Length of body: 2.0-4.2 mm.

**Diagnosis.** The new subgenus differs from subgenus *Cimberis* s. str. by the antennae inserted closer to apex of rostrum in males than in females and almost trapezoidal labrum.

**Etymology.** The name is derived from the words “American” and “cimberis”.

***Cimberis (Amerocimberis) pilosa (LeConte, 1876)***

*Rhinomacer pilosus* LeConte, 1876: 2

**Distribution.** Canada, USA.

**Host plants.** *Pinus banksiana*, *P. palustris*, *P. taeda*, *P. virginiana* [Kuschel, 1989].

***Cimberis (Amerocimberis) compta (LeConte, 1876)***

*Rhinomacer comptus* LeConte, 1876: 2

*Cimberis parvulus* Hatch, 1971: 336

**Distribution.** Canada, USA.

**Host plants.** *Pinus ponderosa*, *P. sibiriana*, *P. virginiana* [Kuschel, 1989].

***Cimberis (Amerocimberis) bihirsuta (Hatch, 1971)***

*Rhinomacer bihirsuta* Hatch, 1971: 336

**Distribution.** Canada, USA.

**Host plants.** *Pinus contorta*, *P. ponderosa* [Kuschel, 1989].

***Cimberis (Amerocimberis) turbans Kuschel, 1989***

*Cimberis turbans* Kuschel, 1989: 133

**Distribution.** USA.

**Host plants.** *Pinus contorta* [Kuschel, 1989].

#### **Genus *Pityomacer* Kuschel, 1989**

*Pityomacer* Kuschel, 1989: 125

Type species: *Pityomacer carmelites* Kuschel, 1989

***Pityomacer carmelites* Kuschel, 1989**

*Pityomacer carmelites* Kuschel, 1989: 147

**Distribution.** USA (California).

Host plants. Unknown.

***Pityomacer pix* Kuschel, 1989**

*Pityomacer pix* Kuschel, 1989: 147

**Distribution.** Canada, USA.

Host plants. Unknown.

***Pityomacer nugax* Kuschel, 1989**

*Pityomacer nugax* Kuschel, 1989: 147

**Distribution.** USA (California).

**Host plants.** *Pinus* sp. [Kuschel, 1989].

#### **Genus *Acromacer* Kuschel, 1989**

*Acromacer* Kuschel, 1989: 125

Type species: *Rhinomacer bombifrons* (LeConte, 1876)

***Acromacer bombifrons (LeConte, 1876)***

*Rhinomacer bombifrons* LeConte, 1876: 412

**Distribution.** Canada, USA.

**Host plants.** *Pinus contorta*, *P. jeffreyi* [Kuschel, 1989].

#### **Subfamily Rhinorhynchinae Voss, 1922**

Rhinorhynchini Voss, 1922: 2

Type genus: *Rhinorhynchus* Sharp, 1882

#### **Tribe Mecomacerini Kuschel, 1994**

Mecomacerini Kuschel, 1994: 576

Type genus: *Mecomacer* Kuschel, 1954

**Remarks.** *Brenthorrhinoides latipeeteris* Liu, Ren, Tan, 2006, *Metrioxenoides pusillus* Gratshev, Zherikhin, Jarzembowski, 1997 and *Libanorhinus succinus* Kuschel & Poinar, 1993 belong to the tribe Mecomacerini because of morphological characters, the antennal attachment in the first place.

#### **Genus *Renicimberis* Legalov, gen.n.**

Type species: *Brenthorrhinoides latipeeteris* Liu, Ren, Tan, 2006: 607

**Remarks.** For the description, see that of *Brenthorrhinoides latipeeteris* [Liu, Ren, Tan, 2006: 608].

**Diagnosis.** The new genus differs from *Libanorhinus* and *Metrioxenoides* by the wide pronotum and weak striae of elytra.

**Etymology.** The new genus is named in honour of D. Ren.

***Renicimberis latipeeteris (Liu, Ren, Tan, 2006), comb.n.***

*Brenthorrhinoides latipeeteris* Liu, Ren, Tan, 2006: 607

**Distribution.** Late Jurassic or Early Cretaceous (China: Liaoning Prov.).

#### **Genus *Metrioxenoides* Gratshev, Zherikhin, Jarzembowski, 1997, placem.n.**

*Metrioxenoides* Gratshev, Zherikhin, Jarzembowski, 1997: 323

Type species: *Metrioxenoides pusillus* Gratshev, Zherikhin, Jarzembowski, 1997

***Metrioxenoides pusillus* Gratshev, Zherikhin, Jarzembowski, 1997**

*Metrioxenoides pusillus* Gratshev, Zherikhin, Jarzembowski, 1997: 324

**Distribution.** Early Cretaceous (England).

#### **Genus *Libanorhinus* Kuschel & Poinar, 1993, placem.n.**

*Libanorhinus* Kuschel & Poinar, 1993: 144

Type species: *Libanorhinus succinus* Kuschel & Poinar, 1993

**Libanorhinus succinus Kuschel & Poinar, 1993**  
*Libanorhinus succinus* Kuschel & Poinar, 1993: 144  
**Distribution.** Early Cretaceous (Lebanon, Amber).

**Genus Mecomacer Kuschel, 1954**

*Mecomacer* Kuschel, 1954: 104  
Type species: *Mecomacer scambus* Kuschel, 1954

***Mecomacer collaris* (Voss, 1952)**

*Rhynchitomacer collaris* Voss, 1952: 177

**Distribution.** Argentina, Chile.

**Host plants.** *Araucaria araucana* [Kuschel, 1959].

***Mecomacer hirticeps* Kuschel, 1954**

*Mecomacer hirticeps* Kuschel, 1954: 109

**Distribution.** Chile.

**Host plants.** *Araucaria araucana* [Kuschel, 2000].

***Mecomacer ruficornis* Kuschel, 1954**

*Mecomacer ruficornis* Kuschel, 1954: 109

**Distribution.** Chile.

**Host plants.** *Araucaria araucana* [Kuschel, 2000].

***Mecomacer scambus* Kuschel, 1954**

*Mecomacer scambus* Kuschel, 1954: 108

**Distribution.** Argentina, Chile.

**Host plants.** *Araucaria araucana* [Kuschel, 2000].

**Genus Notomacer Kuschel, 1994**

*Notomacer* Kuschel, 1994: 577

Type species: *Notomacer araucariae* Kuschel, 1994

***Notomacer araucariae* Kuschel, 1994**

*Notomacer araucariae* Kuschel, 1994: 581

**Distribution.** New Caledonia.

**Host plants.** *Araucaria birmulata* [Kuschel, 1994].

***Notomacer australiae* (Lea, 1926)**

*Rhinomacer australiae* Lea, 1926: 362

**Distribution.** Australia.

**Host plants.** *Agathis robustus*, *A. atropurpurea* [Kuschel, 1994].

***Notomacer brittoni* Kuschel, 1994**

*Notomacer brittoni* Kuschel, 1994: 582

**Distribution.** Australia.

Host plants. Unknown.

***Notomacer caledonicus* Kuschel, 1994**

*Notomacer caledonicus* Kuschel, 1994: 581

**Distribution.** New Caledonia.

**Host plants.** *Araucaria culumnaris* (Kuschel, 1994).

***Notomacer eximius* Kuschel, 1994**

*Notomacer eximius* Kuschel, 1994: 580

**Distribution.** Australia.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

***Notomacer hirtulus* Kuschel, 1994**

*Notomacer hirtulus* Kuschel, 1994: 580

**Distribution.** Australia.

**Host plants.** *Araucaria biramulata* [Kuschel, 1994].

***Notomacer reginae* Kuschel, 1994**

*Notomacer reginae* Kuschel, 1994: 592

**Distribution.** Australia.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

***Notomacer zimmermani* Kuschel, 1994**

*Notomacer zimmermani* Kuschel, 1994: 581

**Distribution.** Australia.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

**Genus Aragomacer Kuschel, 1994**

*Aragomacer* Kuschel, 1994: 577

Type species: *Aragomacer leai* Kuschel, 1994

***Aragomacer grayi* Kuschel, 1994**

*Aragomacer grayi* Kuschel, 1994: 601

**Distribution.** Papua New Guinea.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

***Aragomacer leai* Kuschel, 1994**

*Aragomacer leai* Kuschel, 1994: 601

**Distribution.** Australia.

**Host plants.** *Agathis robusta*, *A. atropurpurea*, *Araucaria cunninghamii* [Kuschel, 1994].

***Aragomacer munus* Kuschel, 1994**

*Aragomacer munus* Kuschel, 1994: 601

**Distribution.** Papua New Guinea.

**Host plants.** *Araucaria hunsteinii* [Kuschel, 1994].

***Aragomacer papuae* Kuschel, 1994**

*Aragomacer papuae* Kuschel, 1994: 601

**Distribution.** Papua New Guinea.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

***Aragomacer uniformis* Kuschel, 1994**

*Aragomacer uniformis* Kuschel, 1994: 601

**Distribution.** Australia.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

**Genus Eutactobius Kuschel, 1994**

*Eutactobius* Kuschel, 1994: 577

Type species: *Eutactobius puellus* Kuschel, 1994

***Eutactobius puellus* Kuschel, 1994**

*Eutactobius puellus* Kuschel, 1994: 610

**Distribution.** Asutralia.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

**Genus Bunyaeus Kuschel, 1994**

*Bunyaeus* Kuschel, 1994: 578

Type species: *Bunyaeus monteithi* Kuschel, 1994

***Bunyaeus eutactae* Kuschel, 1994**

*Bunyaeus eutactae* Kuschel, 1994: 612

**Distribution.** Asutralia.

**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

***Bunyaeus monteithi* Kuschel, 1994**

*Bunyaeus monteithi* Kuschel, 1994: 612

**Distribution.** Asutralia.

**Host plants.** *Araucaria bidwillii* [Kuschel, 1994].

**Genus Rhynchitomacerinus Kuschel, 1954**

*Rhynchitomacerinus* Kuschel, 1954: 104

Type species: *Rhynchitomacer kuscheli* Voss, 1952

***Rhynchitomacerinus kuscheli* (Voss, 1952)**

*Rhynchitomacer kuscheli* Voss, 1952: 177

**Distribution.** Argentina, Chile.

**Host plants.** *Araucaria araucana* [Kuschel, 1954].

**Genus Rhynchitoplesius Voss, 1952**

*Rhynchitoplesius* Voss, 1952: 177

Type species: *Rhynchitomacer eximius* Voss, 1937



**Rhynchitoplesius eximius (Voss, 1937)**  
*Rhynchitomacer eximius* Voss, 1937: 202  
**Distribution.** Brazil.  
**Host plants.** Unknown.

**Subtribe Brarina Legalov, subtrib.n.**

Type genus: *Brarus* Kuschel, 1997  
**Remarks.** For the description, see that of *Brarus* [Kuschel & May, 1997: 16-18].  
**Diagnosis.** The new subtribe Brarina differs from nominative subtribe by the reduced rostrum and widened tibiae.

**Genus Brarus Kuschel, 1997**

*Brarus* Kuschel, 1997: 16  
Type species: *Brarus mystes* Kuschel, 1997

**Brarus mystes Kuschel, 1997**

*Brarus mystes* Kuschel, 1997: 19  
**Distribution.** Brazil.  
**Host plants.** *Araucaria angustifolia* [Kuschel, May, 1997].

**Tribe Rhinorhynchini Voss, 1922**

Rhinorhynchini Voss, 1922: 2  
Type genus: *Rhinorhynchus* Sharp, 1882  
Rhynchitomacerini May, 1993: 15  
Type genus: *Rhynchitomacer* Voss, 1937

**Genus Atopomacer Kuschel, 1989**

*Atopomacer* Kuschel, 1989: 125  
Type species: *Atopomacer ites* Kuschel, 1989

**Atopomacer ites Kuschel, 1989**

*Atopomacer ites* Kuschel, 1989: 127  
**Distribution.** USA.  
**Host plants.** Unknown.

**Atopomacer hondurasensis Legalov, 2009**

*Atopomacer hondurasensis* Legalov, 2009: 51  
**Distribution.** Honduras.  
**Host plants.** Unknown.

**Atopomacer hoplites Kuschel, 1989**

*Atopomacer hoplites* Kuschel, 1989: 127  
**Distribution.** Mexico.  
**Host plants.** *Pinus culminicola* [Kuschel, 1989].

**Atopomacer orites Kuschel, 1989**

*Atopomacer orites* Kuschel, 1989: 127  
**Distribution.** Mexico.  
**Host plants.** *Pinus culminicola* [Kuschel, 1989].

**Genus Rhinorhynchus Sharp, 1882**

*Rhinorhynchus* Sharp, 1882: 88  
Type species: *Rhinorhynchus zealandicus* Sharp, 1882  
*Rhinorhynchus* Kirby, 1884: 102  
Type species: *Rhinorhynchus zealandicus* Sharp, 1882  
*Rhinomacer* subgen. *Listrorhinus* Voss, 1922: 9  
Type species: *Rhinomacer rufulus* Broun, 1880

**Rhinorhynchus halli Kuschel, 2003**

*Rhinorhynchus halli* Kuschel, 2003: 21  
**Distribution.** New Zealand.  
**Host plants.** *Phyllocladus alpinus* [Kuschel, 2003].

**Rhinorhynchus halocarpi Kuschel, 2003**

*Rhinorhynchus halocarpi* Kuschel, 2003: 20  
**Distribution.** New Zealand.  
**Host plants.** *Halocarpus bidwillii*, *Phyllocladus alpinus* [Kuschel, 2003].

**Rhinorhynchus phyllocladi Kuschel, 2003**

*Rhinorhynchus phyllocladi* Kuschel, 2003: 20  
**Distribution.** New Zealand.  
**Host plants.** *Phyllocladus alpinus*, *Ph. trichomanoides*, *Manoao colensoi*, *Halocarous bidwillii*, *Podocarpus totara* [Kuschel, 2003].

**Rhinorhynchus rufulus (Broun, 1880)**

*Rhinomacer rufulus* Broun, 1880: 467  
*Rhinorhynchus zealandicus* Sharp, 1882: 88  
**Distribution.** New Zealand.  
**Host plants.** *Phyllocladus* sp., *Dacrycarpus* sp., *Dacrydium* sp., *Halocarpus* sp., *Lepidothamnus* sp., *Mamoao* sp., *Podocarpus* sp., *Prumnopitys* sp. [Kuschel, 2003].

**Genus Nannomacer Kuschel, 1954**

*Nannomacer* Kuschel, 1954: 105  
Type species: *Rhynchitomacer germaini* Voss, 1952

**Nannomacer germaini (Voss, 1952)**

*Rhynchitomacer germaini* Voss, 1952: 177  
**Distribution.** Chile.  
**Host plants.** Unknown.

**Nannomacer wittmeri Kuschel, 1954**

*Nannomacer wittmeri* Kuschel, 1954: 115  
**Distribution.** Argentina, Chile.  
**Host plants.** *Saxegothaea conspicua* [Kuschel, 1959].

**Genus Basiliorhinus Kuschel, 1994**

*Basiliorhinus* Kuschel, 1994: 588  
Type species: *Basiliorhinus araucariae* Kuschel, 1994

**Basiliorhinus araucariae Kuschel, 1994**

*Basiliorhinus araucariae* Kuschel, 1994: 618  
**Distribution.** Australia.  
**Host plants.** *Araucaria bidwillii* [Kuschel, 1994].

**Genus Basilogeus Kuschel, 1994**

*Basilogeus* Kuschel, 1994: 578  
Type species: *Basilogeus prasinus* Kuschel, 1994

**Basilogeus prasinus Kuschel, 1994**

*Basilogeus prasinus* Kuschel, 1994: 621  
**Distribution.** Australia.  
**Host plants.** *Araucaria bidwillii* [Kuschel, 1994].

**Basilogeus striatopunctatus (Lea, 1926)**

*Auletes striatopunctatus* Lea, 1926: 352  
**Distribution.** Australia.  
**Host plants.** *Araucaria cunninghamii* [Kuschel, 1994].

**Genus Pagomacer Kuschel, 1994**

*Pagomacer* Kuschel, 1994: 578  
Type species: *Basilogeus deceptus* Kuschel, 1994

**Basilogeus deceptus Kuschel, 1994**

*Basilogeus deceptus* Kuschel, 1994: 625  
**Distribution.** Australia.

**Host plants.** Unknown.

**Genus *Rhynchitomacer* Voss, 1937**

*Rhynchitomacer* Voss, 1937: 201

Type species: *Rhynchitomacer flavus* Voss, 1937

*Stenomacer* Kuschel, 1954: 105

Type species: *Stenomacer vernus* Kuschel, 1954

***Rhynchitomacer apionoides* Kuschel, 1959**

*Rhynchitomacer apionoides* Kuschel, 1959: 241

**Distribution.** Argentina, Chile.

**Host plants.** Unknown.

***Rhynchitomacer brevicollis* Voss, 1965**

*Rhynchitomacer brevicollis* Voss, 1965: 329

**Distribution.** Argentina.

**Host plants.** Unknown.

***Rhynchitomacer cortesi* Kuschel, 1959**

*Rhynchitomacer cortesi* Kuschel, 1959: 241

**Distribution.** Chile.

**Host plants.** *Nothofagus obliqua* [Kuschel, 1959].

***Rhynchitomacer errans* Kuschel, 1959**

*Rhynchitomacer errans* Kuschel, 1959: 240

**Distribution.** Chile.

**Host plants.** Unknown.

***Rhynchitomacer flavus* Voss, 1937**

*Rhynchitomacer flavus* Voss, 1937: 201

**Distribution.** Chile.

**Host plants.** Unknown.

***Rhynchitomacer fuscus* (Kuschel, 1954)**

*Stenomacer fuscus* Kuschel, 1954: 124

**Distribution.** Argentina.

**Host plants.** Unknown.

***Rhynchitomacer luridus* Kuschel, 1954**

*Rhynchitomacer luridus* Kuschel, 1954: 118

**Distribution.** Argentina.

**Host plants.** Unknown.

***Rhynchitomacer nigrinus* Kuschel, 1954**

*Rhynchitomacer nigrinus* Kuschel, 1954: 118

**Distribution.** Argentina.

**Host plants.** Unknown.

***Rhynchitomacer nitidus* Kuschel, 1959**

*Rhynchitomacer nitidus* Kuschel, 1959: 240

**Distribution.** Chile.

**Host plants.** *Nothofagus nitida* [Kuschel, 1959].

***Rhynchitomacer puberulus* Kuschel, 1959**

*Rhynchitomacer puberulus* Kuschel, 1959: 241

**Distribution.** Argentina, Chile.

**Host plants.** *Nothofagus dombeyi* [Kuschel, 1959].

***Rhynchitomacer rostralis* Kuschel, 1959**

*Rhynchitomacer rostralis* Kuschel, 1959: 240

**Distribution.** Argentina.

**Host plants.** Unknown.

***Rhynchitomacer rufus* Kuschel, 1954**

*Rhynchitomacer rufus* Kuschel, 1954: 118

**Distribution.** Argentina.

**Host plants.** Unknown.

***Rhynchitomacer vernus* (Kuschel, 1954)**

*Stenomacer vernus* Kuschel, 1954: 124

**Distribution.** Chile.

**Host plants.** *Araucaria araucana* [Kuschel, 1954].

***Rhynchitomacer viridulus* Kuschel, 1954**

*Rhynchitomacer viridulus* Kuschel, 1954: 118

*Rhinomacer frustatus* Voss, 1974: 43

**Distribution.** Argentina, Chile.

**Host plants.** Unknown.

**Subfamily Brentorrhiniinae L. Arnoldi, 1977**

Brentorrhiniinae L. Arnoldi, 1977: 171

**Tribe Procurculionini L. Arnoldi, 1977, stat.res.**

Procurculionini L. Arnoldi, 1977: 157

Eccoptothoracini L. Arnoldi, 1977: 158

**Remarks.** This tribe is a monophyletic group. It differs from the tribe Brentorrhiniini by the subapical located procoxae and narrow mandibles. Therefore I restore it from the synonym of the tribe Brentorrhiniini.

**Genus *Procurculio* L. Arnoldi, 1977 (Col. pl. 1, e)**

*Procurculio* L. Arnoldi, 1977: 157

Type species: *Procurculio fortipes* L. Arnoldi, 1977

*Eccoptothorax* L. Arnoldi, 1977: 158

Type species: *Eccoptothorax latipennis* L. Arnoldi, 1977

***Procurculio fortipes* L. Arnoldi, 1977**

*Procurculio fortipes* L. Arnoldi, 1977: 157

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Procurculio latipennis* (L. Arnoldi, 1977)**

*Eccoptothorax latipennis* L. Arnoldi, 1977: 158

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Procurculio pallens* Gratshev & Zherikhin, 1995**

*Procurculio pallens* Gratshev & Zherikhin, 1995: 93

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

**Genus *Pseudobrentorrhinus* Gratshev & Zherikhin, 1996**

*Pseudobrentorrhinus* Gratshev & Zherikhin, 1996: 114

Type species: *Pseudobrentorrhinus crassicornis*

Gratshev & Zherikhin, 1996

***Pseudobrentorrhinus crassicornis* Gratshev & Zherikhin, 1996**

*Pseudobrentorrhinus crassicornis* Gratshev & Zherikhin, 1996: 114

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Pseudobrentorrhinus magnus* Gratshev & Zherikhin, 1996**

*Pseudobrentorrhinus magnus* Gratshev & Zherikhin, 1996: 114

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Pseudobrentorrhinus tenuicornis* Gratshev & Zherikhin, 1996**

*Pseudobrentorrhinus tenuicornis* Gratshev & Zherikhin, 1996: 114

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

**Tribe Brentorrhiniini L. Arnoldi, 1977**

Brentorrhiniini L. Arnoldi, 1977: 171

Distenorrhiniini L. Arnoldi, 1977: 170

**Genus *Brentorrhinus* L. Arnoldi, 1977 (Col. pl. I, b)**

*Brentorrhinus* L. Arnoldi, 1977: 172

Type species: *Brentorrhinus mirabilis* L. Arnoldi, 1977

***Brenthorhinus brevirostris* Gratshev & Zherikhin, 1996**

*Brenthorhinus brevirostris* Gratshev & Zherikhin, 1996: 115

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Brenthorhinus longidigitatus* Ren, 1995**

*Brenthorhinus longidigitatus* Ren, 1995: 90.

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Brenthorhinus mirabilis* L. Arnoldi, 1977**

*Brenthorhinus mirabilis* L. Arnoldi, 1977: 172

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### **Genus *Distenorrhinus* L. Arnoldi, 1977**

*Distenorrhinus* L. Arnoldi, 1977: 170

Type species: *Distenorrhinus antennatus* L. Arnoldi, 1977

*Paroxycorynoides* L. Arnoldi, 1977: 168, **syn.n.**; type species: *Paroxycorynoides elegans* L. Arnoldi, 1977

#### **Subgenus *Distenorrhinus* s. str.**

***Distenorrhinus (Distenorrhinus) angulatus* L. Arnoldi, 1977**

*Distenorrhinus angulatus* L. Arnoldi, 1977: 170

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Distenorrhinus (Distenorrhinus) antennatus* L. Arnoldi, 1977**

*Distenorrhinus antennatus* L. Arnoldi, 1977: 171

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Distenorrhinus (Distenorrhinus) arnoldii* Gratshev & Zherikhin, 1995**

*Distenorrhinus arnoldii* Gratshev & Zherikhin, 1995: 85

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Distenorrhinus (Distenorrhinus) pallidirostris* Gratshev & Zherikhin, 1995**

*Distenorrhinus pallidirostris* Gratshev & Zherikhin, 1995: 85

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Distenorrhinus (Distenorrhinus) rotundicollis* Gratshev & Zherikhin, 1995**

*Distenorrhinus rotundicollis* Gratshev & Zherikhin, 1995: 85

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### **Subgenus *Parabrenthorhinus* Gratshev & Zherikhin, 1996**

*Parabrenthorhinus* Gratshev & Zherikhin, 1996: 85

Type species: *Parabrenthorhinus sinuatipes* Gratshev & Zherikhin, 1995

***Distenorrhinus (Parabrenthorhinus) sinuatipes* Gratshev & Zherikhin, 1995**

*Distenorrhinus sinuatipes* Gratshev & Zherikhin, 1995: 85

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Distenorrhinus (Parabrenthorhinus) xavieri* (Zherikhin & Gratshev, 2003)**

*Distenorrhinus xavieri* Zherikhin & Gratshev, 2003: 70

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### **Subgenus *Astenorrhinus* Gratshev & Zherikhin, 1995**

*Astenorrhinus* Gratshev & Zherikhin, 1995: 85

Type species: *Distenorrhinus elongatus* Gratshev & Zherikhin, 1995

***Distenorrhinus (Astenorrhinus) elongatus* Gratshev & Zherikhin, 1995**

*Distenorrhinus elongatus* Gratshev & Zherikhin, 1995: 85

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Distenorrhinus (Astenorrhinus) major* Gratshev & Zherikhin, 1995**

*Distenorrhinus major* Gratshev & Zherikhin, 1995: 85

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### **Subgenus *incertae sedis***

***Distenorrhinus elegans* (L. Arnoldi, 1977), comb.n.**

*Paroxycorynoides elegans* L. Arnoldi, 1977: 168

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### **Genus *Megabrenthorhinus* Gratshev & Zherikhin, 1996**

*Megabrenthorhinus* Gratshev & Zherikhin, 1996:

Type species: *Megabrenthorhinus grandis* Gratshev & Zherikhin, 1996

***Megabrenthorhinus grandis* Gratshev & Zherikhin, 1996**

*Megabrenthorhinus grandis* Gratshev & Zherikhin, 1996: 115

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

***Megabrenthorhinus longicornis* Gratshev & Zherikhin, 1996**

*Megabrenthorhinus longicornis* Gratshev & Zherikhin, 1996: 115

**Distribution.** Late Jurassic (Kazakhstan: Karatau).

#### **Genus *Microbrenthorhinus* Gratshev & Zherikhin, 2000**

*Microbrenthorhinus* Gratshev & Zherikhin, 2000b: 40

Type species: *Microbrenthorhinus martinezi* Gratshev & Zherikhin, 2000

***Microbrenthorhinus martinezi* Gratshev & Zherikhin, 2000**

*Microbrenthorhinus martinezi* Gratshev & Zherikhin, 2000b: 41

**Distribution.** Early Cretaceous (Spain: Montsec Range).

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Fossil Nemonychidae gen. spp. (dorsal view): a - *Eobelus longipes* (holotype, № 2452/275), b - *Brenthorrhinus mirabilis* (holotype, № 2554/708), c - *Nanophydes ovatus* (САГУ96), d - *Oxycorynoides similis* (holotype, № 2554/713), e - *Procurculio fortipes* (holotype, № 2066/2339).

Ископаемые Nemonychidae gen. spp. (вид сверху): а - *Eobelus longipes* (голотип, № 2452/275), б - *Brenthorrhinus mirabilis* (голотип, № 2554/708), в - *Nanophydes ovatus* (САГУ96), д - *Oxycorynoides similis* (голотип, № 2554/713), е - *Procurculio fortipes* (голотип, № 2066/2339).