

A MODERN CLASSIFICATION OF LAKE BAIKAL AMPHIPODS

Professor Ravil Kamaltynov of Irkutsk has recently published a catalogue of the very rich fauna of Lake Baikal Amphipoda in the new series “Index of Animal species inhabiting Lake Baikal and its catchment area”. The Amphipoda are on pp 572-831 of Vol I Book 1 of this series, published by the science editors Nauka in Novosibirsk in 2001. As this book is not all that easy to obtain in the west, prof. Kamaltynov has kindly allowed me to copy his classification of the Baikal amphipods on the amphipod website, thereby making it available and ‘downloadable’ for all colleagues. It should be noted, that Dr V.V.Tachteew, who also recently has published an important monograph on Lake Baikal amphipods :“Essays on the amphipods of Lake Baikal (systematics, comparative ecology, evolution)”(Irkutsk State University Press, Irkutsk, 2000, 356 pp) employs a somewhat different classification, with fewer families (cf pp 325-335 in his book); NB All taxa from this book are cited by Kamaltynov as published in 2001.. Both works are in Russian, but Kamaltynov gives English diagnoses of the new taxa described in his catalogue on pp 763-818.

Here follows Kamaltynov’s classification:

NB. The type species are denoted by an asterisk

ACANTHOGAMMARIDAE Garjajeff, 1901

ACANTHOGAMMARINAE Garjajeff, 1901

Acanthogammarus Stebbing, 1899

Acanthogammarus Stebbing, 1899

A. (A.) albus (Garjajeff, 1901)

*A. (A.) godlewskii (Dybowsky, 1874)

A.(A.) gracilispinus Tachteew, 2001

Ancryracanthus Kamaltynov, 2001

A. (An.) lappaceus Tachteew, 2001

A. (An.) longispinus Tachteew, 2001

A. (An.) maculosus Dorogostaisky, 1930

*A. (An.) victorii (Dybowsky, 1874)

Diplacanthus Kamaltynov, 2001

*D. brevispinus (Dorogostaisky, 1922)

Cornugammarus Kamaltynov, 2001

*C. maximus (Garjajeff, 1901)

Oxyacanthus Kamaltynov, 2001

- O. curtus (Bazikalova, 1945)
- *O. flavus (Garjajeff, 1901)
- O. korotneffii (garjajeff, 1901)
- O. rodionowi (Dorogostaisky, 1922)
- O. sowinskii (Bazikalova, 1945)
- O. subbrevispinus (Bazikalova, 1945)
- Brachyuropus*** Stebbing, 1899
 - *B. grewingkii (Dybowsky, 1874)
 - B. nassonowi Dorogostaisky, 1922
 - B. reichertii (Dybowsky, 1874)
- Cheirogammarus*** Sowinsky, 1915
 - *Ch. inflatus Sowinsky, 1915
- Boeckaxelia*** Schellenberg, 1940
 - *B. carpenterii (Dybowsky, 1874)
 - B. elegans (Dorogostaisky, 1930)
 - B. potanini (Dorogostaisky, 1922)
 - B. profundalis (Bazikalova, 1945)
 - B. rubra (Garjajeff, 1901)
- Dorogammarus*** Bazikalova, 1945
 - 'D. castaneus (Dorogostaisky, 1930)
- Carinurus*** Sowinsky, 1915
 - C. amentatus G. Karaman, 1977
 - C. bazikalovae G. Karaman, 1977
 - C. belkinii (Garjajeff, 1901)
 - C. bicarinatus Bazikalova, 1935
 - C. bifrons G.Karaman, 1977
 - C. karamani Kamaltynov, 2001
 - C. microphthalmus (Sowinsky, 1915)
 - C. obscurus Dorogostaisky, 1922
 - C. platycarinus (Sowinsky, 1915)
 - C. reissnerii (Dybowsky, 1874)
 - *C. solskii (Dybowsky, 1874)
 - C.werestschagini Bazikalova, 1935
- Coniurus*** Sowinsky, 1915
 - *C. palmatus Sowinsky, 1915
 - C. radoszkowskii (Dybowsky, 1874) (radoszkowskii?)
 - C. wadimi Sowinsky, 1915
- Brandtia*** Sp. Bate, 1862
 - *B. l. latissima (Gerstfeldt, 1858)
 - B. l. acera Dorogostaisky, 1917
 - B. l. extima Dorogostaisky, 1930

- B. l. intermedia Dorogostaisky, 1930
 B. l. lata (Dybowsky, 1874)
 B. l. latior (Dybowsky, 1874)
 B. l. polyspina Dorogostaisky, 1930
Dorogostaiskia Kamaltynov, 2001(= *Spinacanthus* preocc.)
 D. birsteini (Bazikalova, 1948)
 *D. insularis (Dorogostaisky, 1930)
 D. parasitica (Dybowsky, 1874)
Dedyuola Kamaltynov, 2001
 *D. armata (Dybowsky, 1874)
 D. margaritae (Bazikalova, 1959)
 D. ongureni (Garjajeff, 1901)
Eucarínogammarus Sowinsky, 1915
 *E. waggii (Dybowsky, 1874)
 E. pallidus Dorogostaisky, 1922
Metapallasea Bazikalova, 1959
 *M. galinae Bazikalova, 1959

HYALELLOPSINAE Kamaltynov, 1999

- Gammarosphaera** Bazikalova, 1936
 *G. insularis Bazikalova, 1936
Hyalellopsis Stebbing, 1899
 H. bicolorata Bazikalova, 1948
 H. carinata Sowinsky, 1915
 H. costata Sowinsky, 1915
 *H. czyrnianskii (Dybowsky, 1874)
 H. depressirostris Sowinsky, 1915
 H. eugeniae Sowinsky, 1915
 H. grisea Dorogostaisky, 1930
 H. hamata Sowinsky, 1915
 H. irinae Bazikalova, 1959
 H. l. latipes Bazikalova, 1945
 H. l. selengensis Bazikalova, 1945
 H. linevitschae Kamaltynov, 2001
 H. macrocephala Bazikalova, 1945
 H. nana Bazikalova, 1959
 H. setosa Sowinsky, 1915
 H. stebbingi Sowinsky, 1915
 H. taczanowskii (Dybowsky, 1874)
 H. tixtonae Sowinsky, 1915

H. variabilis Dorogostaisky, 1930

CARINOGAMMARINAE Tachteew, 2001

Aspretus Kamaltynov, 2001

*A. puer (Bazikalova, 1975)

A. pulchelliformis (Bazikalova, 1975)

Asprogammarus Bazikalova 1975

A. bathyphilus Bazikalova, 1975

A. macropsis Bazikalova, 1975

A. pulchellus (Dybowsky, 1874)

*A. rhodophthalmus (Dybowsky, 1874)

A. brachyurus Bazikalova, 1975

A. microphthalmus (Dybowsky, 1874)

A. strenuus Bazikalova, 1975

A. seidlitzii (Dybowsky, 1874)

Carinogammarus Stebbing, 1899

*C. cinnamomeus (Dybowsky, 1874)

Echiuropus Sowinsky, 1915

E. brevicaudatus Sowinsky, 1915

*E. macronychus Sowinsky, 1915

E. levis (Bazikalova, 1975)

E. morawitzii (Dybowsky, 1874)

E. perplexus (Bazikalova, 1975)

E. sempercarinatus (Bazikalova, 1975)

Smaragdogammarus Bazikalova, 1975

S. gulekani (Bazikalova, 1975)

*S. smaragdinus (Dybowsky, 1874)

Pseudomicruropus Bazikalova, 1962

P. chargoensis (Sowinsky, 1915)

P. lepidiformis Bazikalova, 1962

P. lepidus (Bazikalova, 1945)

P. magnus Bazikalova, 1962

*P. rotundatulus (Bazikalova, 1945)

Eremogammarus Kamaltynov, 2001

*E. puella (Dybowsky, 1874)

PARAPALLASEINAE Kamaltynov 1999

Ceratogammarus Sowinsky, 1915

C. acerus Bazikalova, 1937

C. cornutus (Sowinsky, 1915)

**C. dybowskii* Sowinsky, 1915

Palicarinus Barnard & Barnard, 1983

P. carinulatus (Dorogostaisky, 1922)

P. niger (Garjajeff, 1901)

**P. puzyllii* (Dybowsky, 1874)

Parapallasea Stebbing, 1899

P. b. borowskii (Dybowsky, 1874)

P. b. abyssalis (Dybowsky, 1874)

P. wosnessenskii Dorogostaisky, 1922

P. sitnikovae Tachteew, 2001

**P. lagowskii* (Dybowsky, 1874)

PLESIOGAMMARINAE Kamaltynov, 1999

Garjajewia Sowinsky, 1915

**G. cabanisii* (Dybowsky, 1874)

G. dershawini Sowinsky, 1915)

G. dogieli Bazikalova, 1935

G. ninae Bazikalova, 1945

G. sarsi Sowinsky, 1915

Koshovia Bazikalova, 1975

**K. mirabilis* Bazikalova, 1975

Paragarjajewia Bazikalova, 1945

**P. petersii* (Dybowsky, 1874)

P. microphthalma Bazikalova, 1948

Plesiogammarus Stebbing, 1899

Plesiogammarus Stebbing, 1899

**P. (P.) gerstaeckeri* (Dybowsky, 1874)

P. (P.) m. martinsoni Tachteew, 1997

P. (P.) m. impransus Tachteew, 1997

Caecogammarus Kamaltynov, 2001

**P. (C.) brevis* Bazikalova, 1975

P. (C.) inquaesitus Tachteew, 1997

P. (C.) mazepowae Tachteew, 1997

P. (C.) timoshkini Tachteew, 1997

Sentogammarus Kamaltynov, 2001

**S. zienkowiczii* (Dybowsky, 1874)

Supernogammarus Kamaltynov, 2001

**S. longicornis* (Sowinsky, 1915)

POEKILOGAMMARINAE Kamaltynov, 1999

Bathygammarus Bazikalova, 1945

- B. *lydiae* (Bazikalova, 1935)
- B. *okunewae* (Tachteew, 1995)
- *B. *semenkewitschi* (Sowinsky, 1915)
- B. *unguisetosus* (Sowinsky, 1915)

Gymnogammarus Sowinsky, 1915

- *G. *macrurus* Sowinsky, 1915

Inobsequentus Tachteew, 2000

- *I. *galini* (Tachteew, 2000)

Onychogammarus Sowinsky, 1915

Onychogammarus Sowinsky, 1915

- *O. (O.) *araneolus* (Dybowsky, 1874)
- O. (O.) *crassimanus* (Sowinsky, 1915)
- O. (O.) *dorogostajskii* (Tachteew, 1995)
- O. (O.) *ephippiatus* (Dybowsky, 1874)
- O. (O.) *erinaceus* (Tachteew, 1992)
- O. (O.) *longipes* (Bazikalova, 1945)
- O. (O.) *megonychoides* (Bazikalova, 1945)
- O. (O.) *megonychus* (Sowinsky, 1915)
- O. (O.) *perpolitus* (Tachteew, 2000)
- O. (O.) *pictoides* (Sowinsky, 1915)
- O. (O.) *pygoacanthus* (Tachteew, 1995)
- O. (O.) *quinquefasciatus* (Dybowsky, 1874)

Variogammarus Tachteew, 1995

- O. (V.) *curvirostris* (Bazikalova, 1945)
- *O. (V.) *rectirostris* (Bazikalova, 1945)

Rostrogammarus Bazikalova, 1945

- R. *amblyops* (Bazikalova, 1945)
- R. *brevirostris* (Bazikalova, 1945)
- R. *longirostris* (Bazikalova, 1945)
- R. *orchestes* (Dybowsky, 1874)
- *R. *rostratus* (Sowinsky, 1915)
- R. *talitrus* (Dybowsky, 1874)

Poekilogammarus Stebbing, 1899

- *P. *pictus* (Dybowsky, 1874)

Nyctoporea Kamaltynov, 2001

- *N. *sukaczewi* (Sowinsky, 1915)

EULIMNOGAMMARIDAE Kamaltynov, 1999

ABYSSOGAMMARINAE Kamaltynov, 1999

Abyssogammarus Sowinsky, 1915

A. echinatus Bazikalova, 1945

A. gracilis Sowinsky, 1915

A. minor Bazikalova, 1945

*A. sarmatus (Dybowsky, 1874)

Laxmannia Kamaltynov, 2001

*L. swartschewskii (Sowinsky, 1915)

Leptostenus Bazikalova, 1945

*L. l. leptocerus (Dybowsky, 1874)

L. l. nematocerus (Dybowsky, 1874)

Polyacanthina Bazikalova, 1937

*P. calceolata Bazikalova, 1937

Sluginella Kamaltynov, 2001

Sluginella Kamaltynov, 2001

S. (S.) gracilirostris (Bazikalova, 1945)

*S. (S.) pachycerus (Bazikalova, 1945)

S. (S.) stanislavii (Dybowsky, 1874)

Lamugammarus Kamaltynov, 2001

S. (L.) crassicornis (Sowinsky, 1915)

S. (L.) kietlinskii (Dybowsky, 1874)

*S. (L.) macrophthalma (Bazikalova, 1945)

S. (L.) tenuipes (Sowinsky, 1915)

Barguzinia Kamaltynov, 2001

*B. calceolata (Sowinsky, 1915)

EULIMNOGAMMARINAE Kamaltynov, 1999

Eulimnogammarus Bazikalova, 1945

E. ?abyssalis (Sowinsky, 1915)

E. affinis (Sowinsky, 1915)

E. aheneoides Bazikalova, 1945

E. aheneus (Dybowsky, 1874)

E. asetus Bazikalova, 1945

E. miniatus (Dyboswky, 1874)

E. setosus (Dybowsky, 1874)

E. succineus (Dybowsky, 1874)

E. brachycoxalis Bazikalova, 1945

E. burkani Bazikalova, 1945

E. byrkini (Sowinsky, 1915)

E. canus (Dybowsky, 1874)
E. capreolus (Dybowsky, 1874)
E. cruentus (Dorogostaisky, 1930)
E. cyanellus Bazikalova, 1945
E. cyaneus (Dybowsky, 1874)
E. cyanoides (Sowinsky, 1915)
E. czerskii (Dybowsky, 1874)
E. epimeralis (Sowinsky, 1915)
E. exiguus Bazikalova, 1945
E. fuscus (Dybowsky, 1874)
E. longicornis Bazikalova, 1945
E. grandimanus Bazikalova, 1945
E. heterochirus Bazikalova, 1945
E. hyacinthinus (Dybowsky, 1874)
E. i. ibex (Dybowsky, 1874)
E. i. atrichus Bazikalova, 1945
E. immundus Bazikalova, 1945
E. inconspicuus Bazikalova, 1945
E. kuznesowi (Sowinsky, 1915)
E. laevis (Sowinsky, 1915)
E. lividus (Dybowsky, 1874)
E. maacki (Gerstfeldt, 1858)
E. marituji Bazikalova, 1945
E. melanochlorus (Dorogostaisky, 1930)
E. muriniformis Bazikalova, 1945
E. murinus (Dybowsky, 1874)
E. obsoletus Bazikalova, 1945
E. oligacanthus Bazikalova, 1945
E. olivaceus (Dybowsky, 1874)
E. parvexiformis Bazikalova, 1945
E. parvexii (Dybowsky, 1874)
E. polyarthrus (Dybowsky, 1874)
E. proximus (Sowinsky, 1915)
E. rachmanovi (Sowinsky, 1915)
E. saphirinus (Dybowsky, 1874)
E. schamanensis (Dybowsky, 1874)
E. similis (Sowinsky, 1915)
E. simpliciformis Bazikalova, 1975
E. sophiae (Dybowsky, 1874)
E. stenophthalmus (Dybowsky, 1874)
E. testaceus (Dybowsky, 1874)

- E. toxophthalmus (Dybowsky, 1874)
- E. u. ussolzewii (Dybowsky, 1874)
- E. u. abyssorum (Dybowsky, 1874)
- *E. verrucosus (Gerstfeldt, 1858)
- E. violaceus (Dybowsky, 1874)
- E. virgatus (Dorogostaisky, 1930)
- E. viridiformis (Sowinsky, 1915)
- E. viridis (Dybowsky, 1874)
- E. viridulus Bazikalova, 1945
- E. vittatus (Dybowsky, 1874)

ODONTOGAMMARIDAE Kamaltynov, 1999

Bazikalovia Tachteew, 2001

- B. macrochirus (Bazikalova, 1945)
- B. minima (Bazikalova, 1945)
- *B. simplex (Sowinsky, 1915)

Berchinia Kamaltynov, 2001

- *B. curvimanus (Sowinsky, 1915)

Heterogammarus Stebbing, 1899

- H. bifasciatus (Dybowsky, 1874)
- *H. s. sophianosii (Dybowsky, 1874)
- H. s. scirtes (Dybowsky, 1874)

Lobogammarus Bazikalova, 1945

- *L. latus Bazikalova, 1945

Macropereiopus Sowinsky, 1915

- M. albulus (Dybowsky, 1874)
- M. dagarskii Sowinsky, 1915
- *M. florii (Dybowsky, 1874)
- M. grandimanus Bazikalova, 1945
- M. leucophthalmus (Sowinsky, 1915)
- M. mirus Bazikalova, 1975
- M. parvus Bazikalova, 1945
- M. wagneri Sowinsky, 1915

Odontogammarus Stebbing, 1899

- O. bekmanae Tachteew, 1999
- O. brevipes Dorogostaisky, 1930
- *O. calcaratus (Dybowsky, 1874)
- O. caeculus Tachteew, 1999
- O. demianowiczi Dorogostaisky, 1930
- O. improvisus Dorogostaisky, 1930

- O. korotnewi (Sowinsky, 1915)
- O. margaritaceus (Dybowsky, 1874)
- O. pulcherrimus Dorogostaisky, 1930

Ommatogammarus Stebbing, 1899

Abludogammarus G.Karaman, 1980

- *O.(A.) flavus (Dybowsky, 1874)

Ommatogammarus Stebbing, 1899

- *O. (O.) albinus (Dybowsky, 1874)

Pretiositus Kamaltynov, 2001

- O. (P.) amethystinus (Dybowsky, 1874)

- O. (P.) carneolus (Dybowsky, 1874)

- *O. (P.) melanophthalmus Bazikalova, 1945

Profundalia Kamaltynov, 2001

- *P. tenuis (Bazikalova, 1945)

Tengisia Kamaltynov, 2001

- *T. capella (Dybowsky, 1874)

- T. sowinskii (Bazikalova, 1945)

- T. ignota (Dybowsky, 1874)

- T. incerta (Sowinsky, 1915)

BAIKALOGAMMARIDAE Kamaltynov, 2001

Baikalogammarus Stebbing, 1899

- *B. pullus (Dybowsky, 1874)

MACROHECTOPIDAE Stebbing, 1899

Macrohectopus Stebbing, 1899

- *M. branickii (Dybowsky, 1874)

MICRUROPODIDAE Kamaltynov, 1999

CRYPTUROPODINAE Kamaltynov, 2001

Crypturopus Sowinsky, 1915

- C. inflatus (Dybowsky, 1874)

- *C. pachytus (Dybowsky, 1874)

- C. rugosus (Dybowsky, 1874)

- C. tenuipes Bazikalova, 1945

- C. tuberculatus (Dybowsky, 1874)

Homocerisca Bazikalova, 1945

H. caudata Bazikalova, 1945
 *H. perla (Dybowsky, 1874)
 H. perloides Bazikalova, 1945
 H. tenuicauda Bazikalova, 1945

GMELINOIDINAE Kamaltynov, 2001

Gmelinoides Bazikalova, 1945
 *G. fasciatus (Stebbing, 1899)

MICRUROPODINAE Kamaltynov, 2001

Linevichella Kamaltynov, 2001
 *L. vortex (Dybowsky, 1874)
 L. vorticella Bazikalova, 1945

Micruropus Stebbing, 1899
 M. asper Bazikalova, 1962
 M. brevicaudata Bazikalova, 1945
 M. ciliodorsalis Sowinsky, 1915
 M. rostratus Bazikalova, 1962
 M. cristatus Dorogostaisky, 1936
 M. dybowskii Bazikalova, 1945
 M. stelleri Kamaltynov, 2001
 M. tomilovi Kamaltynov, 2001
 M. eugenii Bazikalova, 1945
 M. fixsenii (Dybowsky, 1874)
 M. galasii Bazikalova, 1962
 M. glaber (Dybowsky, 1874)
 M. murini Bazikalova, 1945
 M. ivanowi Bazikalova, 1945
 M. garjajewi Bazikalova, 1945
 M. klukii (Dybowsky, 1874)
 M. koshowi Bazikalova, 1945
 M. setosus Bazikalova, 1945
 M. crassicauda Bazikalova, 1962
 M. laeviusculus (Sowinsky, 1915)
 M. dubius Bazikalova, 1962
 M. littoralis (Dybowsky, 1874)
 M. crassipes Sowinsky, 1915
 M. macroconus Bazikalova, 1945
 M. tenuis Bazikalova, 1962

M. calceolaris Bazikalova, 1945
M. gurjanowae Bazikalova, 1945
M. minutus Sowinsky, 1915
M. mozi Bazikalova, 1945
M. parvulus Bazikalova, 1945
M. platycercus (Dybowsky, 1874)
M. possolskii Sowinsky, 1915
M. pupilla Bazikalova, 1962
M. pusillus Bazikalova, 1962
M. semenowi Bazikalova, 1945
M. talitroides (Dybowsky, 1874)
M. eurypus Bazikalova, 1945
M. latus Bazikalova, 1962
M. ushkani Bazikalova, 1945
*M.wahlia (Dybowsky, 1874)

PACHYSCHEIDAE Kamaltynov, 1999

Pachyschesis Bazikalova, 1945

P. acanthogammarii Tachteew, 2001
P. bazikalovae G. Karaman, 1976
P. bergi Bazikalova, 1945
*P. branchialis (Dybowsky, 1874)
P. bumammus Tachteew, 2001
P. crassus (Sowinsky, 1915)
P. cucuschanok Tachteew, 2001
P. indiscretus Tachteew, 2001
P. inquilinus Tachteew, 2001
P. karabanowi Tachteew, 2001
P. lamakini Tachteew, 2001
P. pinguiculus Tachteew, 2001
P. punctiommatum Tachteew, 2001
P. rarus Tachteew, 2001
P. sideljowae Tachteew, 2001
P. vorax Tachteew, 2001

PALLASEIDAE Tachteew, 2001

Pallasea Sp. Bate, 1862

*P. cancellus (Pallas, 1772)
P. gerstfeldtii (Dybowsky, 1874)

Pallaseopsis Kamaltynov & Väinölä, in Kamaltynov, 2001

- P. cancelloides (Gerstfeldt, 1858)
- *P. g.grubii (Dybowsky, 1874)
- P. g. arenicola (Dorogostaisky, 1922)
- P. kessleri (Dybowsky, 1874)
- P. maligna Tachteew, 2001

Hakonboeckia Stebbing, 1899

- *H. strauchii (Dybowsky, 1874)

Babr Kamaltynov & Väinölä, in Kamaltynov, 2001

- *B. baikali (Stebbing, 1899)(= *Gammarus lovenii* Dybowsky preocc.)
- B. inermis (Sowinsky, 1915)
- B. nigromaculatus (Dorogostaisky, 1922)

Burchania Tachteew, 2001

- *B. meissneri (Bazikalova, 1945)

Homalogammarus Bazikalova, 1945

- *H. brandtii (Dybowsky, 1874)
- H. tenera (Sowinsky, 1915)
- H. flaviceps (Dorogostaisky, 1930)

Pentagonurus Sowinsky, 1915

- P. dawydowi (Sowinsky, 1915)
- *P. dybowskii (Stebbing, 1899)
- P. viridis (Garjajeff, 1901)

Propachygammarus Bazikalova, 1945

- *P. dryshenkoi (Garjajeff, 1901)
- P. bicornis (Dorogostaisky, 1930)
- P. lamellispinus (Bazikalova, 1945)

GAMMARIDAE Leach, 1814***Gammarus*** Fabricius, 1775

- G. lacustris G.O.Sars, 1863

Please send me corrections and omissions!

Tromsø, Dec. 2002

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