

Freshwater Snails in the Southern Russian Far East

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= Abstract =

A review of literature and original data on specific content and distribution of gastropods, inhabiting fresh bodies of water in the Southern Russian Far East is presented. The annotated list includes 98 species in 19 genera and 10 families of Gastropoda.

Key words : Gastropoda, Freshwater snails, Russian Far East

INTRODUCTION

Investigation of Southern Russian Far East freshwater malacofauna was begun in the last century (Middendorff, 1851; Gerstfeldt, 1859; Bourguignat, 1860; Schrenck, 1867; Westerlund, 1883, 1897). Later it was continued by Dybowski (1901), Buttner and Ehrmann (1927), Lindholm (1929) and some others.

On the base of these reports Shadin (1952) listed 23 species of gastropods from the Amur River drainage and Primorye (southern maritime territory of the Russian Far East). New data on the taxonomy of Palearctic malacofauna was followed by revision in all families of Far East molluscs. At first the family Bellamyidae was revised by Moskvicheva (1979). In 1980s Kruglov and Starobogatov (1984, 1985, 1986, 1989) examined 4 subgenera of the family Lymnaeidae in detail. Other families: Pachychilidae (Zatravkin, 1989), Valvatidae (Starobogatov and Zatravkin, 1985; Prozorova, 1988).

Physidae (Starobogatov *et al.*, 1989), Bulinidae (Starobogatov and Prozorova, 1990) and Bithyniidae (Prozorova and Starobogatov, 1991) were revised taxonomically also. As a result of review of these works a monograph on Far East molluscs (Bogatov and Zatravkin, 1990) and papers on malacofauna of the Primorye Territory (Prozorova, 1991, 1995) listed 78 species of gastropods from the Southern Russian Far East were published.

Mentioned publications include data on molluscs from continental freshwater bodies in the main. Study of southern Far East island territory (Kuril Archipelago and Sakhalin) has more short history. It was begun by Japanese aquatic biologists in the 1930s. In the first paper on this subject Miyadi (1933) reported 4 gastropod species on Iturup Island. Later these records were confirmed in other papers (Miyadi, 1935; Miyadi and Mori, 1933a, b). Miyadi (1938) studied the bottom fauna of the lakes in Kunashir Island also. In 1938 Mori (Mori, 1938) published results of a study of the Japanese Planorbidae with notes on Southern Kuril species.

Subsequently, Habe (1942) described new species in the genus *Amnicola*. In total, these Japanese papers listed 9 species of freshwater gastropods, in 6 families. In Russia the first paper on gastropods in freshwaters of the Kuril Islands were published more later (Kluchareva *et al.*, 1969). Fragmentary data on this subject were also presented also by Moskvicheva (1979) and Kruglov and Starobogatov (1989). In total, 5 species were reported by these authors.

Since 1994 we have been investigating fauna and taxonomy of Kuril non-marine malacofauna in detail (Prozorova, 1996b, c; Prozorova, in press). As a result 17 species were noted for the Kuril Archipelago. Three of them were found on the Kurils at the first time. Seven species were described as new for science. There are numerous new data on continental malacofauna which not be included in review works: Bogatov and Zatravkin (1990), Prozorova (1991, 1995). Taxonomy of 3 families: Acroloxidae (Kruglov and Starobogatov, 1991; Prozorova, 1996), Planorbidae (Prozorova and Starobogatov, in press) and Valvatidae (Prozorova and Starobogatov, in press) was revised significantly. Nine new for science species, in 4 genera: *Acroloxus*, *Anisus*, *Choanomphalus* and *Cincinnati* were described. Five species, in 2 genera: *Anisus* and *Polypylis* were revealed as new for the southern Khabarovsk Territory, Primorye Territory or Sakhalin Region.

Following list of species is a result of review of literature and origin data on gastropods inhabiting fresh waters of both continental and island parts of the south of the Russian Far East.

LIST OF SPECIES

Subclass Pectinibranchia Blainville, 1814

Superorder Vivipariformii Sitnikova et Starobogatov, 1982

Order Vivipariformes Sitnikova et Starobogatov, 1982

Suborder Viviparoidei Sitnikova et Starobogatov, 1982

Superfamily Viviparoidea Gray, 1847

Family Bellamyidae Roubach, 1937

Genus *Cipangopaludina* Hannibal, 1912

Subgenus *Cipangopaludina* s. str.

1. *C. (C.) kurilensis* Starobogatov in Moskvicheva, 1979

Synonymy: *Viviparus malleatus* Reeve [Miyadi, 1933, 1938; Shadin, 1952]; *Cipangopaludina malleata* Reeve [Kluchareva *et al.*, 1969].

Locality: Southern Kuril Islands (Kurils), South Sakhalin, Japan.

Subgenus *Ussuripaludina* Zatravkin et Bogatov, 1987

2. *C. (U.) ussuriensis* (Gerstfeldt, 1859)

Synonymy: *Paludina ussuriensis* Gerstfeldt [Gerstfeldt, 1859]; *Vivipara ussuriensis* (Gerstfeldt) [Bourguignat, 1860].

Locality: Amur R. basin.

3. *C. (U.) zejaensis* Moskvicheva, 1979

Locality: Zeya R., Bureya R. (tributaries of the Amur R.) and Arsenjevka R. (tributary of the Ussuri R.) basins.

4. *C. (U.) sujfunensis* Moskvicheva, 1979

Locality: Razdolnaya R. basin (southern Primorye Territory).

Genus *Amuropaludina* Moskvicheva, 1979

5. *A. praerosa* (Gerstfeldt, 1859)

Synonymy: *Paludina praerosa* Gerstfeldt [Gerstfeldt, 1859]; *Vivipara praerosa* (Gerstfeldt) [Bourguignat, 1860]; *V. elophila* Bourguignat [Bourguignat, 1860].

Locality: Amur R. drainage.

6. *A. pachya* (Bourguignat, 1860)

Synonymy: *Vivipara pachya* Bourguignat [Bourguignat, 1860].

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Locality: Amur R. basin except upper reaches.

7. *A. chloantha* (Bourguignat, 1860)

Synonymy: *Vivipara chloantha* Bourguignat
[Bourguignat, 1860].

Locality: Amur R. drainage.

Family Valvatidae Gray, 1840

Subfamily Valvatinae Gray, 1840

Genus *Cincinna* Ferussac, 1821

Subgenus *Sibirovalvata* Starobogatov et Streletzkaia,
1967

8. *C. (S.) bureensis* Starobogatov et Zatravkin,
1985

Locality: Bureya R. and Manoma R. basins (tribu-
taries of the lower Amur R.).

9. *C. (S.) hokkaidoensis* (Miyadi, 1935)

Synonymy: *Valvata cristata hokkaidoensis* Miyadi
[Miyadi, 1933].

Locality: Hokkaido, Honshu, Southern Kurils.

10. *C. (S.) hankensis* Prozorova, 1988

Locality: Lake Khanka, southern Primorye Territory.

11. *C. (S.) middendorffi* Moskvicheva in Starobo-
gatov et Zatravkin, 1985

Synonymy: *C. sibirica middendorffi* Moskvicheva
[Starobogatov and Zatravkin, 1985; Bogatov
and Zatravkin, 1990; Prozorova, 1991].

Locality: Amur R. basins, southern maritime terri-
tory of the Russian Far East.

12. *C. (S.) saghalinensis* (Miyadi, 1935)

Synonymy: *Valvata pulchella saghalinensis* Miyadi
[Miyadi, 1935]; *C. sibirica saghalinensis*
(Miyadi) [Starobogatov and Zatravkin, 1985;
Bogatov and Zatravkin, 1990]

Locality: South Sakhalin.

13. *C. (S.) iturupensis* Prozorova, 1997

Locality: Iturup Island (Southern Kurils).

14. *C. (S.) tymensis* Starobogatov in Starobogatov
et Zatravkin, 1985

Locality: Tym R. (North Sakhalin).

15. *C. (S.) sujfunensis* Prozorova, 1997

Locality: Razdolnaya R. Basin (southern Primorye
Territory), Lake Khanka.

16. *C. (S.) klucharevae* Starobogatov in
Starobogatov et Zatravkin, 1985

Synonymy: *C. kizakikoensis* Fujita et Habe [Fujita,
Habe, 1991].

Locality: South Sakhalin, Hokkaido, Honshu.

17. *C. (S.) sirotskii* Starobogatov et Zatravkin,
1985

Locality: Amur R. basin except upper reaches.

18. *C. (S.) simusyuensis* (Miyadi, 1935)

Synonymy: *Valvata piscinalis simusyuensis* Miyadi
[Miyadi, 1935].

Locality: Kuril Islands.

19. *C. (S.) amurensis* Moskvicheva in
Starobogatov et Zatravkin, 1985

Locality: Amur R. except upper reaches, Ussuri R.,
Lake Khanka.

20. *C. (S.) japonica* (Martens, 1877)

Synonymy: *Valvata piscinalis japonica* Martens
[Martens, 1877].

Locality: South Sakhalin, Hokkaido, Honshu.

Order Rissoiformes Slavoshevskaja, 1983

Superfamily Bithynioidea Gray, 1857

Family Bithyniidae Gray, 1857

Subfamily Parafossarulinae Starobogatov in
Starobogatov et Sitnikova, 1983

Genus *Boreoelona* Starobogatov et Streletzkaia, 1967

21. *B. contortrix* (Lindholm, 1909)

Synonymy: *Bithynia contortrix* Lindholm; *B. gravida*
borealis Westerlund [Westerlund, 1897]; *B.*

- inflata angarensis* Dybowski.
Locality: Amur R. basin, southern maritime territory of the Russian Far East, probably Korea.
22. *B. ussuriensis* (Ehrmann in Buttner et Ehrmann, 1927)
Synonymy: *Bithynia ussuriensis* Ehrmann [Buttner, Ehrmann, 1927].
Locality: Amur R. basin except upper reaches, southern maritime territory of the Russian Far East, probably Korea.
23. *B. ehrmanni* Starobogatov et Prozorova, 1991
Locality: Siberia, Russian Far East, may be found in Korea.
Genus *Parafossarulus* Annandale, 1924
24. *P. manchouricus* (Bourguignat, 1860)
Synonymy: *Bithynia manchouricus* Bourguignat [Bourguignat, 1860].
Locality: Amur R. except upper reaches, Korea.
25. *P. sungariensis* Moskvicheva in Starobogatov et Zatravkin, 1987
Locality: middle Sungari R., introduced into the Amur R.
26. *P. spiridonovi* Zatravkin et Starobogatov in Zatravkin, Dovgalev et Starobogatov, 1989
Locality: Amur R. except upper reaches.
Family Kolhymannicolidae Starobogatov in Starobogatov et Sitnikova, 1983
Genus *Akiyoshia* Kuroda et Habe, 1954
27. *A. sachalinensis* Zatravkin et Bogatov, 1988
Locality: South Sakhalin.
Genus *Kolhymannicola* Starobogatov et Budnikova, 1976
28. *K. wasiliewae* Zatravkin et Bogatov, 1988
Locality: low Amur R.
29. *K. miyadaii* (Habe, 1942)
Synonymy: *Ammicola miyadaii* Habe [Habe, 1942; Kuroda, 1963; Kluchareva *et. al.*, 1969].
Locality: Southern Kurils.
Order Cerithiiformes Golikov et Starobogatov, 1975
Superfamily Cerithioidea Ferussac, 1819
Family Pachychilidae Troschel, 1857
Subfamily Pleurocerinae Fischer, 1885
Genus *Hua* Chen, 1943
Subgenus *Hua* s. str.
30. *H. (H.) amurensis* (Gerstfeldt, 1859)
Synonymy: *Melania amurensis* Gerstfeldt [Gerstfeldt, 1859]; *Juga (H.) amurensis* (Gerstfeldt) [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1990, 1991, 1995].
Locality: Amur R. drainage.
31. *H. (H.) heukelomiana* (Reeve, 1864)
Synonymy: *Melania heukelomiana* Reeve; *Juga (H.) heukelomiana* (Reeve) [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1991, 1995].
Locality: Amur R. drainage.
32. *H. (H.) nodosa* (Westerlund, 1897)
Synonymy: *Baicalia nodosa* Westerlund [Westerlund, 1897]; *Melania amurensis laevigata* Gerstfeldt, non *M. laevigata* Lamarck [Gerstfeldt, 1859]; *Juga (H.) nodosa* (Westerlund) [Zatravkin 1986; Bogatov and Zatravkin, 1990; Prozorova, 1990, 1991, 1995].
Locality: Amur R. drainage.
33. *H. (H.) buettneri* (Ehrmann in Buttner et Ehrmann, 1927)
Synonymy: *Melania buettneri* Ehrmann [Buttner, Ehrmann, 1927]; *Juga (H.) buettneri* (Ehrmann in Buttner et Ehrmann) [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1990, 1991, 1995].

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Locality: lower Amur R. basin.

34. *H. (H.) chankensis* Moskvicheva in Zatravkin, 1986

Synonymy: *Juga (H.) chankensis* Moskvicheva [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1991, 1995].

Locality: Amur R. drainage.

35. *H. (H.) czerskii* Moskvicheva in Zatravkin, 1986

Synonymy: *Juga (H.) czerskii* Moskvicheva [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1990, 1991, 1995].

Locality: Amur R. basin except upper reaches.

36. *H. (H.) amgunica* Moskvicheva in Zatravkin, 1986

Synonymy: *Juga (H.) amgunica* Moskvicheva [Zatravkin, 1986; Bogatov and Zatravkin, 1990].

Locality: Amgun R. drainage.

37. *H. (H.) tegulata* (Martens, 1905)

Synonymy: *Melania (Semisulcospira) tegulata* Martens [Martens, 1905]; *Juga (H.) tegulata* [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1990, 1991].

Locality: Razdolnaya R. and Artyomovka R. basins (southern Primorye Territory), Korea.

38. *H. (H.) extensa* (Martens, 1905)

Synonymy: *Melania (Semisulcospira) extensa* Martens [Martens, 1905]; *Juga (H.) extensa* [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1991].

Locality: Razdolnaya R. basin (southern Primorye Territory), Korea.

39. *H. (H.) calculus* (Reeve, 1864)

Synonymy: *Melania calculus* Reeve; *Juga (H.) calculus* (Reeve) [Zatravkin, 1986; Bogatov and Zatravkin, 1990; Prozorova, 1990, 1991].

Locality: Razdolnaya R. and Artyomovka R. basins (southern Primorye Territory), Korea.

40. *H. (H.) tugurensis* Zatravkin et Moskvicheva in Zatravkin, 1986

Synonymy: *Juga (H.) tugurensis* Zatravkin et Moskvicheva [Zatravkin, 1986; Bogatov and Zatravkin, 1990].

Locality: Tugur R. basin (northern Khabarovsk Territory).

41. *H. (H.) starobogatovi* Zatravkin et Moskvicheva in Zatravkin, 1986

Synonymy: *Juga (H.) starobogatovi* Zatravkin et Moskvicheva [Zatravkin, 1986; Bogatov and Zatravkin, 1990].

Locality: Tugur R. basin (northern Khabarovsk Territory).

Order Lymnaeiformes Ferussac, 1821

Superfamily Latioidea Hutton, 1882

Family Acroloxidae Thiele, 1831

Genus *Acroloxus* Beck, 1837

Subgenus *Acroloxus* s. str.

42. *A. (A.) orientalis* Kruglov et Starobogatov, 1991

Locality: Upper Zeya R. and Uda R. basins (tributaries of the Amur R.), North Sakhalin.

Subgenus *Amuracroloxus* Kruglov et Starobogatov, 1991

43. *A. (A.) likharevi* Moskvicheva, Kruglov et Starobogatov in Kruglov et Starobogatov, 1991

Locality: Amur R. and Tugur R. basins, southern maritime territory of the Russian Far East.

44. *A. (A.) ussuriensis* Moskvicheva, Kruglov et Starobogatov in Kruglov et Starobogatov, 1991

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

45. *A. (A.) hassanicus* Kruglov et Starobogatov, 1991
 Locality: Amur R. basin, southern maritime territory of the Russian Far East.
46. *A. (A.) zarjaensis* Kruglov et Starobogatov, 1991
 Locality: freshwater basins of eastern slopes of Sikhote-Alin Mountains (northern Primorye Territory).
47. *A. (A.) victori* Prozorova, 1996
 Locality: Tumnin R. basin (eastern Khabarovsk Territory).
- Superfamily Lymnaeoidea Rafinesque, 1815
 Family Lymnaeidae Rafinesque, 1815
 Genus *Lymnaea* Lamarck, 1797
 Subgenus *Stagnicola* Leach in Jeffreys, 1830
 Section *Ladislavella* B. Dybowski, 1913
48. *L. (S.) liogyra* (Westerlund, 1897)
 Synonymy: *Limnaea palustris* var. *liogyra* Westerlund (Westerlund, 1897).
 Locality: Amur R. basin and southern maritime territory of the Russian Far East.
- Subgenus *Sibirigalba* Kruglov et Starobogatov, 1985
49. *L. (S.) sibirica* (Westerlund, 1885)
 Synonymy: *Limnaea truncatula* var. *sibirica* Westerlund.
 Locality: eastern West Siberia, East Siberia, Russian far East including Amur R. drainage. southern Alaska, northern Japan, Korea.
- Subgenus *Radix* Monfort, 1810
 Section *Desertiradix* Kruglov et Starobogatov, 1989
50. *L. (R.) mongolica* (Yen, 1939)
 Synonymy: *Pseudosuccinea mongolica* Yen [Yen, 1939].
 Locality: Inner Mongolia, Lake Khanka.
- Section *Ussuriradix* Kruglov et Starobogatov, 1989
51. *L. (R.) schubinae* Kruglov, Starobogatov et Zatravkin in Kruglov et Starobogatov, 1989
 Locality: Amur R. basin and southern maritime territory of the Russian Far East.
52. *L. (R.) coreana* (Martens, 1886)
 Synonymy: *Limnaea (Radix) auricularia* var. *coreana* Martens [Martens, 1886].
 Locality: Amur R. basin, southern maritime territory of the Russian Far East, Korea.
53. *L. (R.) pacifampla* Kruglov et Starobogatov, 1989
 Locality: southern maritime territory of the Russian Far East.
54. *L. (R.) ussuriensis* Kruglov et Starobogatov, 1989
 Locality: Amur R. basin and southern maritime territory of the Russian Far East.
- Section *Nipponiradix* Kruglov et Starobogatov, 1989
55. *L. (R.) japonica* Jay, 1846
 Locality: Japan, Korea, Southern Kurils.
56. *L. (R.) zarenkovi* Kruglov et Starobogatov, 1989
 Locality: Iturup Island (Southern Kurils).
57. *L. (R.) kunashirica* Kruglov et Starobogatov, 1989
 Locality: Kunashir Island (Southern Kurils).
58. *L. (R.) kurilensis* Kruglov et Starobogatov, 1989
 Locality: Southern Kurils, Hokkaido.
59. *L. (R.) iturupica* Kruglov et Starobogatov, 1989
 Locality: Southern Kuril, Hokkaido.
- Subgenus *Peregriana* Servain, 1881

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Section *Amurlymnaea* Kruglov et Starobogatov, 1984

60. *L. (P.) amurensis* Kruglov, Moskvicheva et Starobogatov in Kruglov et Starobogatov, 1984

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

61. *L. (P.) manomaensis* Kruglov, Starobogatov et Zatravkin in Kruglov et Starobogatov, 1984

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

62. *L. (P.) dvoriadkini* Kruglov et Starobogatov, 1984

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

63. *L. (P.) sihotéalínica* Kruglov et Starobogatov, 1984

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

Subgenus *Orientalgalba* Kruglov et Starobogatov, 1985

Section *Orientalgalba* s. str.

64. *L. (O.) hookeri* Reeve, 1864

Synonymy: *Lymnaea heptapotamica* Lazareva.

Locality: eastern central Asia, Mongolia, Transbaikalia, Amur R. drainage.

Section *Viridigalba* Kruglov et Starobogatov, 1985

65. *L. (O.) viridis* Quoy et Gaimard, 1833

Synonymy: *Limnaea viridis* Quoy et Gaimard; partim *Lymnaea (Galba) ollula* Gould [Kuroda, 1963].

Locality: East Asia (including Korea), Micronesia.

66. *L. (O.) ollula* (Gould, 1859)

Synonymy: *Limnaea ollula* Gould (Gould, 1859); *Austropeplea ollula* (Gould).

Locality: East Asia (including Korea).

Section *Lenagalba* Kruglov et Starobogatov, 1985

67. *L. (O.) lenaensis* Kruglov et Starobogatov, 1985

Locality: central Siberia, Amur R. basin, southern maritime territory of the Russian Far East.

Superfamily Physoidea Fitzinger, 1833

Family Physidae Fitzinger, 1833

Subfamily Aplexinae Starobogatov, 1967

Genus *Aplexa* Fleming, 1820

Subgenus *Amuraplexa* Starobogatov et Prozorova in Starobogatov, Prozorova et Zatravkin, 1989

68. *A. (A.) amurensis* Starobogatov et Prozorova in Starobogatov, Prozorova et Zatravkin, 1989

Locality: Transbaikalia, Amur R. basin, southern maritime territory of the Russian Far East.

69. *A. (A.) orientalis* Starobogatov et Prozorova in Starobogatov, Prozorova et Zatravkin, 1989

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

70. *A. (A.) moskvichevae* Starobogatov et Zatravkin in Starobogatov, Prozorova et Zatravkin, 1989

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

Genus *Physa* Draparnaud, 1801

Subgenus *Ussuriphysa* Starobogatov et Prozorova in Starobogatov, Prozorova et Zatravkin, 1989

71. *P. (U.) hankensis* Starobogatov et Prozorova in Starobogatov, Prozorova et Zatravkin, 1989

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

72. *P. (U.) khabarovskiensis* Starobogatov et Zatravkin in Starobogatov, Prozorova et Zatravkin, 1989

Locality: Amur R. drainage.

Genus *Costatella* Dall, 1870

73. *C. integra* (Haldeman, 1841)

Locality: North America, widely introduced in the Eurasia; of sporadic occurrence in the Primorye Territory and Korea.

Superfamily Planorbidea Rafinesque, 1815

Family Bulinidae Herrmannsen, 1846

Subfamily Camptoceratinae Dall, 1870

Tribe Camptoceratini Dall, 1870

Genus *Culmenella* Clench, 1927

Subgenus *Culmenellina* Starobogatov et Prozorova, 1990

74. *C. (C.) rezvoji* Lindholm, 1929

Synonymy: *Glyptophysa rezvoji* Lindholm.

Locality: Amur R. basin except upper reaches, southern Primorye Territory, may be found in Korea.

75. *C. (C.) lindholmi* Starobogatov et Prozorova, 1990

Locality: Amur R. basin except upper reaches, southern Primorye Territory, may be found in Korea.

76. *C. (C.) bulldowskii* Starobogatov et Prozorova, 1990

Locality: Primorye Territory, may be found in Korea.

Family Planorbidae Rafinesque, 1815

Genus *Anisus* Studer, 1820

Subgenus *Gyraulus* Agassiz in Charpentier, 1837

77. *A. (G.) acronicus* (Ferussac, 1807)

Synonymy: *Planorbis deformis* Hartmann.

Locality: North Eurasia, Sakhalin, northern tributaries of the Amur R.

78. *A. (G.) kamtschaticus* (Westerlund, 1897)

Locality: North-East Asia, south to the Amur R. basin.

79. *A. (G.) centrifugops* Prozorova et

Starobogatov, 1997

Synonymy: *A. (G.) centrifugus* Westerlund [Dvoryadkin, 1980; Bogatov and Zatravkin, 1990; Prozorova, 1991].

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

80. *A. (G.) infirmus* Mori, 1938

Synonymy: *A. (G.) laevis infirmus* Mori [Mori, 1938]; *Gyraulus infirmus* Mori [Kuroda, 1963].

Locality: Southern Kurils, South Sakhalin, probably Hokkaido.

81. *A. (G.) iturupensis* Prozorova et Starobogatov, 1997

Locality: Southern Kurils.

82. *A. (G.) zelenensis* Prozorova et Starobogatov, 1997

Locality: Southern Kurils.

83. *A. (G.) illibatus* (Westerlund, 1883)

Synonymy: *Planorbis (G.) illibatus* Westerlund.

Locality: Southern Kurils, Hokkaido.

84. *A. (G.) tugurensis* Prozorova et Starobogatov, 1997

Locality: Tugur R. basin.

85. *A. (G.) subfiliaris* Moskvicheva in Dworiadkin, 1980

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

86. *A. (G.) spirillus* (Gould, 1859)

Synonymy: *Planorbis spirillus* Gould [Gould, 1859].

Locality: Hokkaido, Honshu, Southern Kurils.

87. *A. (G.) noziensis* Mori, 1938

Synonymy: *A. (G.) albus noziensis* Mori [Mori, 1938].

Locality: Southern Kurils, South Sakhalin, Tumnin R.

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drainage, Hokkaido, Honshu.

88. *A. (G.) hankensis* Prozorova et Starobogatov, 1997

Locality: Lake Khanka drainage.

Subgenus *Microanisis* Moskvicheva in Zatravkin, 1985

89. *A. (M.) minusculus* Moskvicheva in Dworiadkin, 1980

Locality: Amur R. basin except upper reaches, southern maritime territory of the Russian Far East.

Genus *Choanomphalus* Gerstfeldt, 1852

Subgenus *Vitreoplanorbis* Moskvicheva in Zatravkin, 1985

90. *C. (V.) hyaliniformes* Moskvicheva in Dworiadkin, 1985

Locality: Amur R. basin except upper reaches, southern maritime territory of the Russian Far East.

Subgenus *Lamorbis*

91. *C. (L.) okhoticus* Prozorova et Starobogatov, 1997

Locality: Tugur R. basin.

Genus *Kolhymorbis* Starobogatov et Streletzkaja, 1967

92. *K. angarensis* (Dybowski et Grochmalicki, 1925)

Synonymy: *Segmentina nitida angarensis* Dybowski et Grochmalicki.

Locality: East Siberia, Amur R. basin, southern maritime territory of the Russian Far East.

93. *K. bogatovi* Zatravkin et Moskvicheva in Zatravkin, 1985

Locality: Amur R. basin except upper reaches.

Genus *Polypylis* Pilsbry, 1906

Subgenus *Polypylis* s. str.

94. *P. (P.) semiglobosa* Moskvicheva in

Dworiadkin, 1980

Locality: Amur R. basin except upper reaches, southern maritime territory of the Russian Far East.

95. *P. (P.) nitidella* (Martens, 1877)

Synonymy: *Planorbis nitidellus* Martens [Martens, 1877; Clessin, 1886]; *P. (Segmentina) mica* Westerlund [Westerlund, 1883]; *S. nitidella* (Martens); *Anisus (S.) nitidellus* (Martens) [Mori, 1938]; *Polypylis nitidella* (Martens) [Kuroda, 1963].

Locality: Honshu, Hokkaido and Kunashir Island (Southern Kurils).

Genus *Helicorbis* Benson, 1855

Subgenus *Helicorbis* s. str.

96. *H. (H.) sujfunensis* Starobogatov, 1957

Locality: Amur R. basin, southern maritime territory of the Russian Far East.

97. *H. (H.) rara* Moskvicheva in Zatravkin, 1985

Locality: upper and middle Sungari R. basin, introduced into the Amur R.

98. *H. (H.) levanidovae* Zatravkin et Moskvicheva in Zatravkin, 1985

Locality: upper and middle Sungari R. basin, introduced into the Amur R.

SUMMARY

Literature and origin data on specific content and distribution of gastropods inhabiting Amur River drainage, southern maritime territory of the Russian Far East, Sakhalin and Kuril Archipelago is reviewed. As a result, 98 species in 19 genera and 10 families of Gastropoda are noted to occur in these freshwater basins. Twenty of them are listed for this region at the first time. Data on synonymy

and locality of all species are presented.

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