

FAUNA AQUATICA AUSTRIACA

MOLLUSCA: BIVALVIA (Mussels and Clams)

Alexander Reischütz, Peter L. Reischütz,
Otto Moog & Hasko F. Nesemann

Mag. Alexander Reischütz
Puechhaimgasse 52
A-3580 Horn
alexander.reischuetz@gmx.at

Mag. Peter L. Reischütz
Puechhaimgasse 52
A-3580 Horn

Univ. Prof. Dr. Otto Moog
Universität für Bodenkultur Wien
Institut für Hydrobiologie und Gewässermanagement
Gregor-Mendel-Straße 33
A-1180 Wien
otto.moog@boku.ac.at

Dr. Hasko Friedrich Nesemann
Im Obergarten 9
D-65719 Hofheim
hnesemann2000@yahoo.co.in

Quotation note

Reischütz, A., Reischütz, P.L., Moog, O. & H.F. Nesemann (2017):
Mollusca: Bivalvia. In Moog, O. & A. Hartmann (Eds.): Fauna
AquatICA Austriaca, 3. Edition 2017. BMLFUW, Wien.



Traditionally the systematic classification of molluscs is not static but dynamic. Since the second issue of *Fauna Aquatica Austriaca* in 2002 there have again been some changes in the classification.

New species have been described, new records have been made (unfortunately mostly Neozoa), and changes in the nomenclature have been made.

In the present issue an attempt has been made to combine valid nomenclature and the comparability with other databases. For easier handling the classification in this issue is based on the Freshwaterecology-Info-Database, where taxonomically acceptable. In other cases we follow *Fauna Europaea* (version 2017).

References used

- Bank, R. A. (2017): *Fauna Europaea Project - Checklist of the land and freshwater Gastropoda of Europe*.- 176 S., Naturhistorisches Museum der Burgergemeinde Bern.
http://www.nmbe.ch/sites/default/files/uploads/PDF_Upload/fauna_europaea_2017_03_15.pdf
- Schmidt-Kloiber A. & D. Hering (eds.): *www.freshwaterecology.info - the taxa and autecology database for freshwater organisms*, version 7.0 (accessed on 05.12.2016).
- Schmidt-Kloiber, A. & D. Hering (2015): *www.freshwaterecology.info - an online tool that unifies, standardises and codifies more than 20,000 European freshwater organisms and their ecological preferences*. Ecological Indicators. <http://dx.doi.org/10.1016/j.ecolind.2015.02.007>

Species inventory

Family Margaritiferidae

Genus *Margaritifera* SCHUMACHER, 1816

Margaritifera margaritifera (LINNAEUS, 1758)

Family Unionidae

Genus *Unio* PHILIPSSON, 1788

Unio crassus albensis HAZAY, 1885

Unio crassus cytherea KÜSTER, 1833

Unio crassus decurvatus ROSSMÄSSLER, 1835

Unio pictorum latirostris KÜSTER, 1853

Unio pictorum platyrhynchus ROSSMÄSSLER, 1835

Unio tumidus zelebori ZELEBOR, 1851

Genus *Anodonta* LAMARCK, 1799

Anodonta anatina attenuata HELD, 1836

Anodonta anatina rostrata ROSSMÄSSLER, 1836

Anodonta cygnea deplanata M. GALLENGSTEIN, 1852

Anodonta cygnea solearis HELD, 1839

Genus *Pseudanodonta* BOURGUIGNAT, 1876

Pseudanodonta complanata complanata (ROSSMÄSSLER, 1835)

Genus *Sinanodonta* MODELL, 1945

Sinanodonta woodiana (LEA, 1834)

Family Dreissenidae

Genus *Dreissena* VAN BENEDEN, 1835

Dreissena bugensis (ANDRUSOV, 1897)

Dreissena polymorpha (PALLAS, 1771)

Family Corbiculidae

Genus *Corbicula* MEGERLE VON MÜHLFELD, 1811

Corbicula fluminalis (O.F. MÜLLER, 1774) single finding in Austria; deliberate release conceivable

Corbicula fluminea (O.F. MÜLLER, 1774)

Family Sphaeriidae

Genus *Musculium* LINK, 1807

Musculium lacustre (O.F. MÜLLER, 1774)

Genus *Pisidium* C. PFEIFFER, 1821

Subgenus *Cingulipisidium*

Pisidium (Cingulipisidium) milium HELD, 1836

Pisidium (Cingulipisidium) nitidum (JENYNS, 1832)

Pisidium (Cingulipisidium) pseudosphaerium J. FAVRE, 1927

Subgenus *Cyclocalyx*

Pisidium (Cyclocalyx) obtusale (LAMARCK, 1818)

Subgenus Euglesa

Pisidium (Euglesa) casertanum casertanum (POLI, 1791)

Pisidium (Euglesa) casertanum ponderosum (STELFOX, 1918)

Pisidium (Euglesa) globulare CLESSIN, 1873

Pisidium (Euglesa) personatum MALM, 1855

Subgenus Henslowiana

Pisidium (Henslowiana) henslowanum (SHEPPARD, 1823)

Pisidium (Henslowiana) lilljeborgii CLESSIN, 1886 high need of oxygen, surf zone

Pisidium (Henslowiana) supinum (A. SCHMIDT, 1851)

Subgenus Hiberneuglesa

Pisidium (Hiberneuglesa) hibernicum WESTERLUND, 1894 micro waters

Subgenus Neopisidium

Pisidium (Neopisidium) conventus CLESSIN, 1877

Subgenus Odhneripisidium

Pisidium (Odhneripisidium) moitessierianum PALADILHE, 1866

Pisidium (Odhneripisidium) tenuilineatum STELFOX, 1918

Subgenus Pisidium

Pisidium (Pisidium) amnicum (O.F. MÜLLER, 1774)

Subgenus Pseudeupera

Pisidium (Pseudeupera) subtruncatum MALM, 1855

Genus Sphaerium SCOPOLI, 1777

Sphaerium corneum (LINNAEUS, 1758)

Sphaerium nucleus (S. STUDER, 1820)

Sphaerium ovale (A. FERUSSAC, 1807)

Sphaerium rivicola (LAMARCK, 1818)

	Saprobic valencies					W	SI
	x	o	ß	a	p		
Anodonta							
<i>Anodonta anatina attenuata</i>	-	2	4	4	-	2	2,2
<i>Anodonta anatina rostrata</i>	-	2	4	4	-	2	2,2
<i>Anodonta cygnea deplanata</i>	-	3	4	3	-	2	2,0
<i>Anodonta cygnea solearis</i>	-	3	4	3	-	2	2,0
Corbicula							
<i>Corbicula fluminalis</i>	-	2	7	1	-	3	1,9
<i>Corbicula fluminea</i>	-	2	7	1	-	3	1,9
Dreissena							
<i>Dreissena bugensis</i>	-	3	5	2	-	2	1,9
<i>Dreissena polymorpha</i>	-	3	5	2	-	2	1,9
Margaritifera							
<i>Margaritifera margaritifera</i>	2	8	+	-	-	4	0,8
Musculium							
<i>Musculium lacustre</i>	-	1	4	5	-	2	2,4
Pisidium							
Untergattung Cingulipisidium							
<i>Pisidium (Cingulipisidium) milium</i>	-	1	8	1	-	4	2,0
<i>Pisidium (Cingulipisidium) nitidum</i>	-	2	5	3	-	2	2,1
<i>Pisidium (Cingulipisidium) pseudosphaerium</i>	-	10	-	-	-	5	1,0
Untergattung Cyclocalyx							
<i>Pisidium (Cyclocalyx) obtusale</i>	+	4	5	1	-	2	1,7
Untergattung Euglesa							
<i>Pisidium (Euglesa) casertanum casertanum</i>	1	3	3	3	-	1	1,8
<i>Pisidium (Euglesa) casertanum ponderosum</i>	-	2	8	-	-	4	1,8
<i>Pisidium (Euglesa) globulare</i>	-	-	7	3	-	4	2,3
<i>Pisidium (Euglesa) personatum</i>	+	4	4	2	-	2	1,8
Untergattung Henslowiana							
<i>Pisidium (Henslowiana) henslowianum</i>	-	1	6	3	-	3	2,2
<i>Pisidium (Henslowiana) lilljeborgii</i>	+	10	+	-	-	5	1,0
<i>Pisidium (Henslowiana) supinum</i>	-	-	7	3	-	4	2,3
Untergattung Hiberneuglesa							
<i>Pisidium (Hiberneuglesa) hibernicum</i>	+	8	2	-	-	4	1,2
Untergattung Neopisidium							
<i>Pisidium (Neopisidium) conventus</i>	-	10	-	-	-	5	1,0
Untergattung Odhneripisidium							
<i>Pisidium (Odhneripisidium) moitessierianum</i>	-	+	7	3	-	4	2,3
<i>Pisidium (Odhneripisidium) tenuilineatum</i>	-	4	6	-	-	3	1,6
Untergattung Pisidium							
<i>Pisidium (Pisidium) amnicum</i>	-	3	6	1	-	3	1,8

	x	o	ß	a	p	W	SI
Untergattung Pseudeupera							
<i>Pisidium (Pseudeupera) subtruncatum</i>	-	2	4	4	-	2	2,2
Pseudanodonta							
<i>Pseudanodonta complanata complanata</i>	-	2	7	1	-	3	1,9
although tolerant to salt no pollution indicator							
Sinanodonta							
<i>Sinanodonta woodiana</i>	-	-	7	3	-	4	2,3
Sphaerium							
<i>Sphaerium corneum</i>	-	1	5	4	-	2	2,3
<i>Sphaerium nucleus</i>	-	7	3	-	-	1	1,3
<i>Sphaerium ovale</i>	-	1	5	4	-	2	2,3
<i>Sphaerium rivicola</i>	-	-	8	2	-	4	2,2
Unio							
<i>Unio crassus albensis</i>	-	+	7	3	-	4	2,3
<i>Unio crassus cytherea</i>	-	3	6	1	-	3	1,8
<i>Unio crassus decurvatus</i>	-	6	4	-	-	3	1,4
<i>Unio pictorum latirostris</i>	-	2	5	3	-	2	2,1
<i>Unio pictorum platyrhynchus</i>	-	6	4	-	-	3	1,4
<i>Unio tumidus zelebori</i>	-	-	6	4	-	3	2,4

Longitudinal distribution

	EUC	HYC	ER	MR	HR	EP	MP	HP	LIT	PRO
Anodonta										
<i>Anodonta anatina attenuata</i>	-	-	-	1	2	2	2	-	3	-
<i>Anodonta anatina rostrata</i>	-	-	-	1	2	2	2	-	3	-
<i>Anodonta cygnea deplanata</i>	-	-	-	-	+	1	1	-	8	-
<i>Anodonta cygnea solearis</i>	-	-	-	-	-	1	1	-	8	-
Corbicula										
<i>Corbicula fluminalis</i>	-	-	-	-	-	2	3	5	-	-
<i>Corbicula fluminea</i>	-	-	-	-	+	3	3	2	2	-
In Austria also spreading in rhithral waters observed; e.g. mass occurrences in a fast flowing millstream of river Kamp and the river itself in Langenlois.										
Dreissena										
<i>Dreissena bugensis</i>	-	-	-	-	+	2	4	-	4	+
<i>Dreissena polymorpha</i>	-	-	-	-	+	2	4	-	4	+
Margaritifera										
<i>Margaritifera margaritifera</i>	-	+	2	5	3	-	-	-	+	-
Musculium										
<i>Musculium lacustre</i>	+	1	-	-	-	2	2	-	5	-
Pisidium										
Untergattung Cingulipisidium										
<i>Pisidium (Cingulipisidium) milium</i>	+	+	-	-	2	2	2	-	4	-
<i>Pisidium (Cingulipisidium) nitidum</i>	-	-	-	2	2	2	2	-	2	-
<i>Pisidium (Cingulipisidium) pseudosphaerium</i>	-	-	-	-	-	-	-	-	10	-
fen waters										
Untergattung Cyclocalyx										
<i>Pisidium (Cyclocalyx) obtusale</i>	+	+	2	2	2	2	2	+	+	+
Untergattung Euglesa										
<i>Pisidium (Euglesa) casertanum casertanum</i>	1	1	1	2	2	1	1	-	1	-
<i>Pisidium (Euglesa) casertanum ponderosum</i>	-	-	-	-	-	3	3	-	4	-
<i>Pisidium (Euglesa) globulare</i>	-	-	-	-	-	3	3	-	4	-
<i>Pisidium (Euglesa) personatum</i>	1	1	1	2	2	1	-	-	2	-
Untergattung Henslowiana										
<i>Pisidium (Henslowiana) henslowanum</i>	-	-	-	-	-	3	3	-	4	+
<i>Pisidium (Henslowiana) lilljeborgii</i>	-	-	-	-	-	-	-	-	10	-
<i>Pisidium (Henslowiana) supinum</i>	-	-	-	-	-	5	5	-	+	-
Untergattung Hiberneuglesa										
<i>Pisidium (Hiberneuglesa) hibernicum</i>	-	-	-	-	+	2	4	-	4	-

	EUC	HYC	ER	MR	HR	EP	MP	HP	LIT	PRO
Untergattung Neopisidium										
<i>Pisidium (Neopisidium) conventus</i>	-	-	-	-	-	-	-	-	-	10
Untergattung Odhneripisidium										
<i>Pisidium (Odhneripisidium) moitessierianum</i>	-	-	-	-	-	3	3	-	4	-
<i>Pisidium (Odhneripisidium) tenuilineatum</i>	-	-	-	1	2	3	1	-	3	-
Untergattung Pisidium										
<i>Pisidium (Pisidium) amnicum</i>	-	+	-	-	2	8	-	-	-	-
Untergattung Pseudeupera										
<i>Pisidium (Pseudeupera) subtruncatum</i>	+	+	1	1	2	2	2	-	1	1
Pseudanodonta										
<i>Pseudanodonta complanata complanata</i>	-	-	-	-	-	2	5	2	1	-
Sinanodonta										
<i>Sinanodonta woodiana</i>	-	-	-	-	-	1	1	-	8	-
Sphaerium										
<i>Sphaerium corneum</i>	-	+	+	1	2	2	3	-	2	-
<i>Sphaerium nucleus</i>	-	-	-	-	-	-	-	-	10	-
<i>Sphaerium ovale</i>	-	-	-	-	1	5	4	-	-	-
<i>Sphaerium rivicola</i>	-	-	-	-	+	4	5	-	1	-
Unio										
<i>Unio crassus albensis</i>	-	-	-	-	-	2	6	-	2	-
<i>Unio crassus cytherea</i>	-	-	1	3	3	2	1	-	+	-
<i>Unio crassus decurvatus</i>	-	-	-	3	3	1	-	-	3	-
<i>Unio pictorum latirostris</i>	-	-	-	-	+	2	4	-	4	+
<i>Unio pictorum platyrhynchus</i>	-	-	-	-	+	3	-	-	7	-
<i>Unio tumidus zeleborei</i>	-	-	-	-	-	2	6	-	2	-

Functional feeding guilds										
	SHR	GRA	AFIL	PFIL	DET	MIN	XYL	PRE	PAR	OTH
Anodonta										
<i>Anodonta anatina attenuata</i>	-	-	10	-	-	-	-	-	-	-
<i>Anodonta anatina rostrata</i>	-	-	10	-	-	-	-	-	-	-
<i>Anodonta cygnea deplanata</i>	-	-	10	-	-	-	-	-	-	-
<i>Anodonta cygnea solearis</i>	-	-	10	-	-	-	-	-	-	-
Corbicula										
<i>Corbicula fluminalis</i>	-	-	10	-	-	-	-	-	-	-
<i>Corbicula fluminea</i>	-	-	10	-	-	-	-	-	-	-
Dreissena										
<i>Dreissena bugensis</i>	-	-	10	-	-	-	-	-	-	-
<i>Dreissena polymorpha</i>	-	-	10	-	-	-	-	-	-	-
Margaritifera										
<i>Margaritifera margaritifera</i>	-	-	10	-	-	-	-	-	-	-
Musculium										
<i>Musculium lacustre</i>	-	-	10	-	-	-	-	-	-	-
Pisidium										
Untergattung Cingulipisidium										
<i>Pisidium (Cingulipisidium) milium</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Cingulipisidium) nitidum</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Cingulipisidium) pseudosphaerium</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Cyclocalyx										
<i>Pisidium (Cyclocalyx) obtusale</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Euglesa										
<i>Pisidium (Euglesa) casertanum casertanum</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Euglesa) casertanum ponderosum</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Euglesa) globulare</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Euglesa) personatum</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Henslowiana										
<i>Pisidium (Henslowiana) henslowanum</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Henslowiana) lilljeborgii</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Henslowiana) supinum</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Hiberneuglesa										
<i>Pisidium (Hiberneuglesa) hibernicum</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Neopisidium										

	SHR	GRA	AFIL	PFIL	DET	MIN	XYL	PRE	PAR	OTH
<i>Pisidium (Neopisidium) conventus</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Odhneripisidium										
<i>Pisidium (Odhneripisidium) moitessierianum</i>	-	-	10	-	-	-	-	-	-	-
<i>Pisidium (Odhneripisidium) tenuilineatum</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Pisidium										
<i>Pisidium (Pisidium) amnicum</i>	-	-	10	-	-	-	-	-	-	-
Untergattung Pseudeupera										
<i>Pisidium (Pseudeupera) subtruncatum</i>	-	-	10	-	-	-	-	-	-	-
Pseudanodonta										
<i>Pseudanodonta complanata complanata</i>	-	-	10	-	-	-	-	-	-	-
Sinanodonta										
<i>Sinanodonta woodiana</i>	-	-	10	-	-	-	-	-	-	-
Sphaerium										
<i>Sphaerium corneum</i>	-	-	10	-	-	-	-	-	-	-
<i>Sphaerium nucleus</i>	-	-	10	-	-	-	-	-	-	-
<i>Sphaerium ovale</i>	-	-	10	-	-	-	-	-	-	-
<i>Sphaerium rivicola</i>	-	-	10	-	-	-	-	-	-	-
Unio										
<i>Unio crassus albensis</i>	-	-	10	-	-	-	-	-	-	-
<i>Unio crassus cytherea</i>	-	-	10	-	-	-	-	-	-	-
<i>Unio crassus decurvatus</i>	-	-	10	-	-	-	-	-	-	-
<i>Unio pictorum latirostris</i>	-	-	10	-	-	-	-	-	-	-
<i>Unio pictorum platyrhynchus</i>	-	-	10	-	-	-	-	-	-	-
<i>Unio tumidus zelebori</i>	-	-	10	-	-	-	-	-	-	-