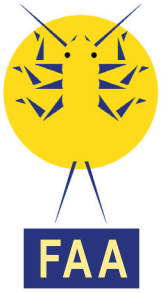
FAUNA AQUATICA AUSTRIACA

A Comprehensive Species Inventory of Austrian Aquatic Organisms with Ecological Notes



2nd Edition - 2002

Editor

Otto Moog

BOKU - University of Natural Resources and Applied Life Sciences

Institute of Hydrobiology and Aquatic Ecosystem Management

Published by

Federal Ministry of Agriculture, Forestry, Environment and Water Management

Division VII (Water)

lebensministerium.at

2nd edition, 2002

Produced by the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Applied Life Sciences on behalf of Federal Ministry of Agriculture, Forestry, Environment and Water Management

Project supervisor: Univ. Prof. Dr. Otto Moog
Max Emanuel Straße 17
A-1180 Vienna

The catalogue will be appended at irregular intervals. Supplements appending the catalogue will be numbered in ascending order and instructions about merging the supplements will therefore allow the catalogue to be easily updated.

Quoting the Catalogue in reference lists:

When quoting the catalogue as a whole:

MOOG, O. (Ed.) (2002): Fauna Aquatica Austriaca, Edition 2002.– Wasserwirtschaftskataster, Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft, Vienna.

Taxonomic parts of the Catalogue should be quoted as follows:

Author(s) of organism group (year): Organism group. – Part (as roman numerals), number of pages in total pp., in: MOOG, O. (Ed.) (2002): Fauna Aquatica Austriaca, Edition 2002.– Wasserwirtschaftskataster, Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft, Vienna.

Published by:

Federal Ministry of Agriculture, Forestry, Environment and Water Management, Stubenring 1, A-1010 Vienna

ISBN: 3-85 174-044-0

CRUSTACEA (crustaceans)
Copepoda: Cyclopoida

Santiago Gaviria, Alois Herzig, Peter Pospisil & Lázlo Forró

Addresses of the authors:

Dr. Santiago Gaviria
Universität Wien
Institut für Ökologie und Naturschutz
Abteilung für Limnologie
Althanstraße 14
A-1090 Wien
santiago.gaviria@univie.ac.at

Dr. Alois Herzig
Biologische Station Neusiedler See
A-7142 Illmitz
biol.stat@aon.at

Dr. Peter Pospisil
Reichmanngasse 3/6
A-1160 Wien
peter.pospisil@utanet.at

Dr. Lázlo Forró
Hungarian Natural History Museum
Department of Zoology
Baross utca 3,
H-1088 Budapest
forro@zoo.zoo.nhmus.hu

Quotation note:

GAVIRIA, S., HERZIG, A., POSPISIL, P. & L. FORRÓ (2002): Crustacea: Copepoda: Cyclopoida.- Part III, 6 pp., in MOOG, O. (Ed.) (2002): Fauna Aquatica Austriaca, Edition 2002.- Wasserwirtschaftskataster, Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft, Wien.

CRUSTACEA (crustaceans)
Copepoda: Cyclopoida

Family Cyclopidae

Subfamily Cyclopinae

Genus Acanthocyclops KIEFER, 1927
Acanthocyclops gmeineri POSPISIL, 1989
Acanthocyclops kieferi (CHAPPUIS, 1925)
Acanthocyclops rhenanus KIEFER, 1936
Acanthocyclops robustus (SARS, 1863)
Acanthocyclops sensitivus (GRAETER & CHAPPUIS, 1914)
Acanthocyclops venustus (NORMAN & SCOTT, 1906)
Acanthocyclops vernalis (FISCHER, 1853)

Genus Cyclops O.F. MÜLLER (s.str. KIEFER, 1939) [1]
Cyclops abyssorum praealpinus (KIEFER, 1939)
Cyclops abyssorum tatricus (KOZMINSKI, 1927)
Cyclops bohater KOZMINSKI, 1933
Cyclops furcifer CLAUS, 1857
Cyclops strenuus FISCHER, 1851
Cyclops vicinus ULJANIN, 1875

Genus Cryptocyclops SARS, 1927
Cryptocyclops bicolor (SARS, 1863)

Genus Diacyclops KIEFER, 1927
Diacyclops bicuspidatus (CLAUS, 1857)
Diacyclops bisetosus (REHBERG, 1880)
Diacyclops cohabitatus MONSCHENKO, 1980
Diacyclops crassicaudis brachycercus KIEFER, 1927
Diacyclops crassicaudis crassicaudis (SARS, 1863)
Diacyclops danielopoli POSPISIL, 1999
Diacyclops disjunctus (THALLWITZ, 1927)
Diacyclops felix POSPISIL, 1999
Diacyclops languidoides clandestinus (KIEFER, 1926)
Diacyclops languidoides goticus (KIEFER, 1931)
Diacyclops languidoides languidoides (LILLJEBORG, 1901) [2]
Diacyclops languidus languidus (SARS, 1863) [2]
Diacyclops languidus maisi PLESA & BUZILA, 1998

Genus Graeteriella BREHM, 1926
Graeteriella laisi (KIEFER, 1936)
Graeteriella unisetigera (GRAETER, 1908)

Genus Megacyclops KIEFER, 1927
Megacyclops gigas (CLAUS, 1857)
Megacyclops viridis (JURINE, 1820)

Genus Mesocyclops KIEFER, 1927 [3]
Mesocyclops leuckarti (CLAUS, 1857)

Genus Metacyclops KIEFER, 1927
Metacyclops gracilis (LILLJEBORG, 1853)
Metacyclops minutus (CLAUS, 1863)
Metacyclops planus (GURNEY, 1909)

Genus Microcyclops CLAUS, 1893
Microcyclops rubellus (LILLJEBORG, 1901)
Microcyclops varicans (SARS, 1863)

Genus Thermocyclops KIEFER, 1927
Thermocyclops crassus (FISCHER, 1853)
Thermocyclops dybowskii (LANDE, 1890)
Thermocyclops oithonoides (SARS, 1863)

Genus Speocyclops KIEFER, 1937
Speocyclops cerberus (CHAPPUIS, 1934)

Subfamily Eucyclopinae

Genus Austriocyclops KIEFER, 1964
Austriocyclops vindobonae KIEFER, 1964

Genus Ectocyclops BRADY, 1904
Ectocyclops phaleratus (KOCH, 1938)

Genus Eucyclops CLAUS, 1893
Eucyclops denticulatus (GRAETER, 1903)
Eucyclops graeteri (CHAPPUIS, 1927)
Eucyclops macruroides (LILLJEBORG, 1901)
Eucyclops macrurus (SARS, 1863)
*Eucyclops serrulatus (*FISCHER, 1851)
Eucyclops speratus (LILLJEBORG, 1901)

Genus Macrocyclops CLAUS, 1893
Macrocyclops albidus (JURINE, 1820)
Macrocyclops distinctus (RICHARD, 1887)
Macrocyclops fuscus (JURINE, 1820)

Genus Paracyclops CLAUS, 1893
Paracyclops affinis (SARS, 1863)
Paracyclops fimbriatus (FISCHER, 1853)
Paracyclops poppei (REHBERG, 1880)

Genus Tropocyclops KIEFER, 1927
Tropocyclops prasinus (FISCHER, 1860)

P. Pospisil was supported by FWF, Projekt N° 11149 Bio

[1] *Cyclops insignis* CLAUS, 1857 (reported by PESTA (1923)) was found in the today's area of Italy (South Tyrol).
[2] species complex with a great number of species former described as subspecies
[3] *Mesocyclops ruttneri* KIEFER, 1981 was reported from an arborium in Lunz, Lower Austria (probably introduced from the tropics). In Austria, this species wasn't reported anymore since then.

CRUSTACEA (crustaceans)
Copepoda: Cyclopoida

(Adults, copepodit stages 4 and 5) [1) 2)]

	SHR	GRA[3)]	AFIL	PFIL	DET	MIN	XYL	PRE	PAR	OTH[4)]
Acanthocyclops										
A. gmeineri	-	-	-	-	+	-	-	*	-	+
A. kieferi	-	-	-	-	*	-	-	*	-	*
A. rhenanus	-	-	-	-	*	-	-	*	-	*
A. robustus	-	-	4	-	-	-	-	6	-	-
A. sensitivus	-	-	-	-	*	-	-	*	-	*
A. venustus	-	-	-	-	*	-	-	*	-	*
A. vernalis	-	-	4	-	-	-	-	6	-	-
Austriocyclops										
A. vindobonae	-	-	-	-	*	-	-	*	-	*
Cyclops										
C. abyssorum praealpinus	-	-	+	-	+	-	-	*	-	-
C. abyssorum tatricus	-	-	+	-	+	-	-	*	-	-
C. bohater	-	2	1	-	-	-	-	7	-	-
C. furcifer	-	2	1	-	-	-	-	7	-	-
C. strenuus	-	2	3	-	2	-	-	3	-	-
C. vicinus	-	-	3	-	-	-	-	7	-	-
Cryptocyclops										
C. bicolor	-	+	-	-	3	-	-	4	-	3
Diacyclops										
D. bicuspidatus	-	+	-	-	+	-	-	*	-	+
D. bisetosus	-	+	-	-	+	-	-	+	-	+
D. clandestinus	-	-	-	-	*	-	-	+	-	*
D. cohabitatus	-	-	-	-	*	-	-	+	-	*
D. crassicaudis brachycercus	-	3	-	-	4	-	-	+	-	3
D. crassicaudis crassicaudis	-	3	-	-	4	-	-	+	-	3
D. danielopoli	-	-	-	-	*	-	-	+	-	*
D. disjunctus	-	-	-	-	*	-	-	+	-	*
D. felix	-	-	-	-	*	-	-	+	-	*
D. languidoides clandestinus	-	-	-	-	*	-	-	+	-	*
D. languidoides goticus	-	-	-	-	*	-	-	+	-	*
D. languidoides languidoides	-	-	-	-	*	-	-	+	-	*
D. languidus languidus	-	*	-	-	*	-	-	+	-	*
D. languidus maisi	-	*	-	-	*	-	-	+	-	*
Ectocyclops										
E. phaleratus	-	*	-	-	*	-	-	+	-	*
E. speratus	-	7	-	-	3	-	-	+	-	+

	SHR	GRA[3)]	AFIL	PFIL	DET	MIN	XYL	PRE	PAR	OTH[4)]
Eucyclops										
E. denticulatus	-	7	-	-	3	-	-	+	-	+
E. graeteri	-	-	-	-	*	-	-	+	-	*
E. macruroides	-	6	-	-	+	-	-	4	-	+
E. macrurus	-	10	-	-	-	-	-	+	-	-
E. serrulatus	-	7	-	-	+	-	-	3	-	+
Graeteriella										
G. laisi	-	-	-	-	*	-	-	-	-	*
G. unisetigera	-	-	-	-	*	-	-	+	-	*
Macrocyclops										
M. albidus	-	+	-	-	-	-	-	10	-	-
M. distinctus	-	+	-	-	10[5)]	-	-	-	-	-
M. fuscus	-	+	-	-	-	-	-	10	-	-
Megacyclops										
M. gigas	-	-	-	-	-	-	-	10	-	-
M. viridis	-	-	-	-	-	-	-	10	-	-
Mesocyclops										
M. leuckarti	-	+	3	-	2	-	-	5	-	+
Metacyclops										
M. gracilis	-	+	*	-	+	-	-	+	-	+
M. minutus	-	+	-	-	+	-	-	+	-	+
M. planus	-	+	-	-	+	-	-	+	-	+
Microcyclops										
M. rubellus	-	-	-	-	2	-	-	4	-	4
M. varicans	-	-	-	-	2	-	-	4	-	4
Paracyclops										
P. affinis	-	10	-	-	+	-	-	+	-	+
P. fimbriatus	-	10	-	-	+	-	-	+	-	-
P. poppei	-	+	-	-	-	-	-	+	-	-
Thermocyclops										
Th. crassus	-	+	6	-	2	-	-	2	-	-
Th. dybowskii	-	+	8	-	-	-	-	2	-	-
Th. oithonoides	-	+	6	-	2	-	-	2	-	-
Tropocyclops										
T. prasinus	-	7	+	-	+	-	-	3	-	+
Speocyclops										
S. cerberus	-	-	-	*	-	-	-	+	-	*

[1)] Depending on the food supply, every population shows different feeding habits
[2)] Most species are particle feeders (detritus, algae, evertebrates); smaller particles are filtered actively, bigger ones are snapped or gripped
[3)] Benthic and epiphytic algae
[4)] Biofilm (bacterias, fungi)
[5)] Detritus and dead animals