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Key to Larvae, Pupae and Males from Central and Western Europe

Wolfgang Lechthaler

2023



Title: Culicidae - Key to Larvae, Pupae and Males from Central and Western Europe; DVD-Edition

Author: Wolfgang Lechthaler (2023)

Copyright: 2023 by Wolfgang Lechthaler; Eutaxa; lechthaler@eutaxa.com; www.eutaxa.com

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Culicidae 23 - Product Information

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Author

Lechthaler Wolfgang

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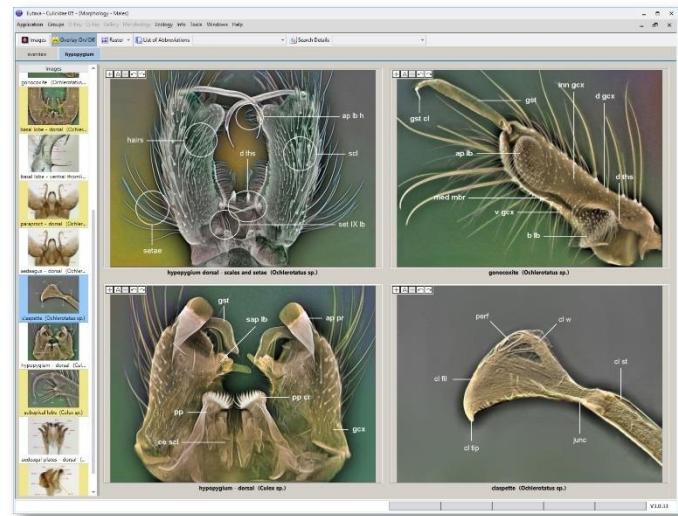
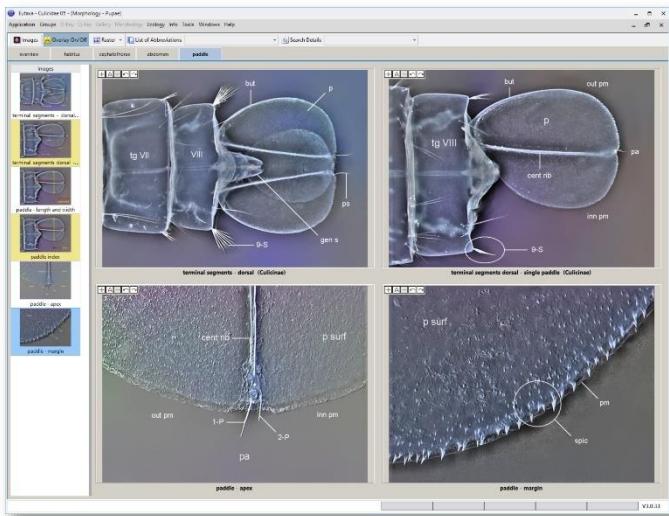
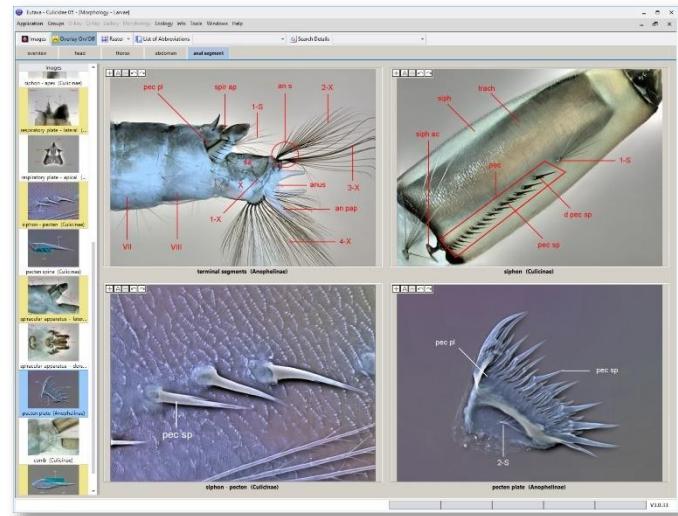
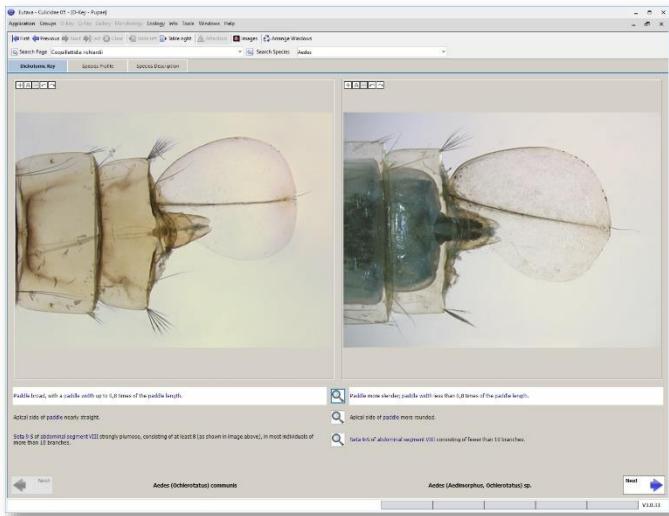
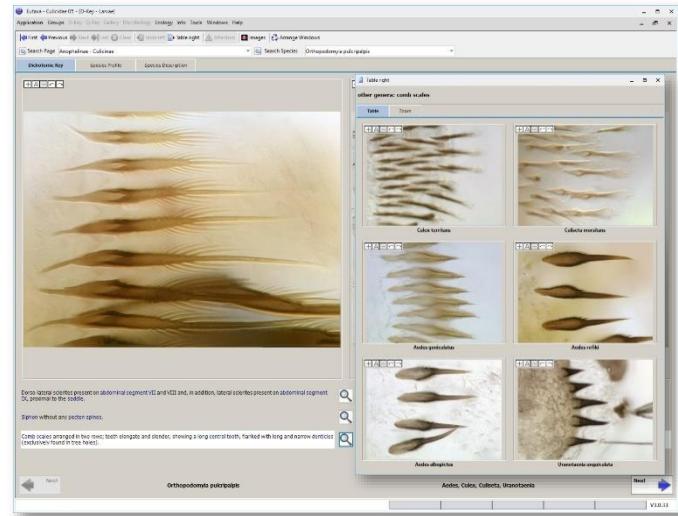
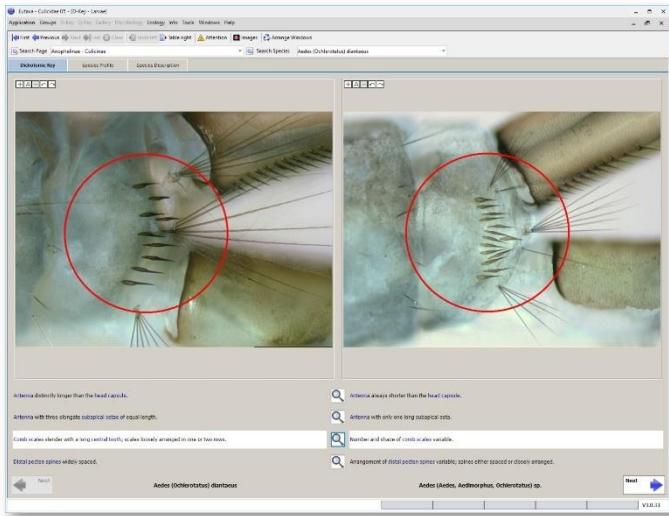
€ 450,00

This product offers a versatile application for identifying larvae, pupae and males of the family Culicidae (O. Diptera, SO. Nematocera). About 57 species of Central- and Western Europe, including the British Isles, are documented in detail and numerous illustrations of relevant morphological characters can be queried from an extensive picture database and compared with each other. A range of ecological and systematic dates shall enhance the knowledge of this invertebrate group, significant for the classification of standing waters and important as vectors of serious diseases to humans and livestock.

More information about this product, how to order, and a sample of images from the picture data base is given under the internet address www.eutaxa.com.

For questions, concerning this product, please send an E-Mail to lechthaler@eutaxa.com.

Software Images: D-Key, Morphology



Software Images: Gallery, Query Key, Ecology

The screenshot displays the MorphoJ software interface, specifically the 'Compare Species (Morph)' module. The main window shows nine digital photographs of insect heads (Diptera) arranged in a 3x3 grid, each labeled with its scientific name and a 'head-dorsal' orientation indicator. The species shown are: *Anopheles gambiae*, *Anopheles stephensi*, *Anopheles punctimacula*; *Culex pipiens*, *Culex quinquefasciatus*, *Culex tarsalis*; *Aedes vexans*, *Aedes vexans*, *Aedes vexans*; *Aedes vexans*, *Aedes vexans*, *Aedes vexans*; and *Anopheles stephensi*. The left sidebar lists additional species names, and the top menu bar includes options like 'File', 'Edit', 'View', 'Analysis', 'Results', 'Biogeography', 'Help', and 'Archive'. The bottom right corner of the image contains the text 'V2.13'.

The screenshot shows the iNaturalist Collector software interface. At the top, there's a menu bar with 'Application', 'Clipboard', 'File', 'Edit', 'View', 'Tools', 'Help', and several tabs like 'Species', 'Compare', 'Profile', 'Search', 'Import', 'Export', 'Print', 'Archive', and 'Image'. Below the menu is a toolbar with icons for 'Select Data', 'Find', 'Previous', 'Next', 'Last', 'First', 'Next', 'Last', 'Print', 'Archive', and 'Image'. A search bar is followed by buttons for 'Search', 'Import', and 'Archive'. On the left, there's a sidebar titled 'Selected Species' with a dropdown for 'Sort Order' (set to 'Alphabetical') and checkboxes for 'Approximate', 'Exact', 'Or', and 'Or More'. Below this are sections for 'Adults' and 'Images', with a list of image types: 'Normal view' (selected), 'Anterior view', 'Posterior view', 'Lateral view', 'Mouthpart', 'Terminal segments', 'Spiracle', 'Pecten', and 'Unknown'. To the right of the sidebar are nine detailed images of the mite's legs and head, each with a label: 'Adult (Chironotata) - distal - tibiae', 'Adult (Chironotata) - distal - head dorsal', 'Adult (Chironotata) - distal - head lateral', 'Adult (Chironotata) - distal - femur hairs', 'Adult (Chironotata) - distal - tarsus', and 'Adult (Chironotata) - distal - tarsus'. Each image has a set of small navigation icons above it.

List of Species, covered by the Key

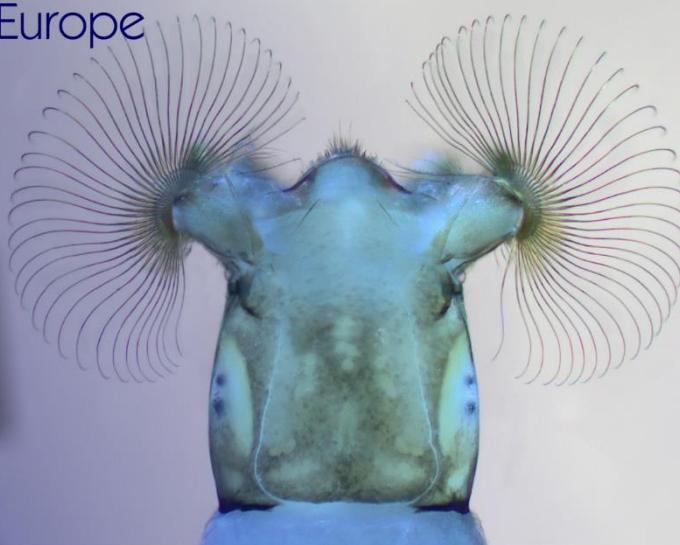
Anopheles (Anopheles) algeriensis Theobald, 1903
 Anopheles (Anopheles) atroparvus Van Thiel, 1927
 Anopheles (Anopheles) claviger (Meigen, 1804)
 Anopheles (Anopheles) hyrcanus (Pallas, 1771)
 Anopheles (Anopheles) labranchiae Falleroni, 1926
 Anopheles (Anopheles) maculipennis s. s. Meigen, 1818
 Anopheles (Anopheles) messeae Falleroni, 1926
 Anopheles (Anopheles) plumbeus Stephens, 1828
 Anopheles (Anopheles) subalpinus Hackett & Lewis, 1935
 Aedes (Aedes) cinereus Meigen, 1818
 Aedes (Aedes) geminus Peus, 1970
 Aedes (Aedes) rossicus Dolbeškin, Gorickaja & Mitrofanova, 1930
 Aedes (Aedimorphus) vexans (Meigen, 1830)
 Aedes (Finlaya) geniculatus (Olivier, 1791)
 Aedes (Hulecoeteomyia) japonicus (Theobald, 1901)
 Aedes (Ochlerotatus) annulipes (Meigen, 1830)
 Aedes (Ochlerotatus) cantans (Meigen, 1818)
 Aedes (Ochlerotatus) caspius (Pallas, 1771)
 Aedes (Ochlerotatus) cataphylla (Dyar, 1916)
 Aedes (Ochlerotatus) communis (De Geer, 1776)
 Aedes (Ochlerotatus) cyprius (Ludlow, 1920)
 Aedes (Ochlerotatus) detritus (Haliday, 1833)
 Aedes (Ochlerotatus) diantaeus (Howard, Dyar & Knab, 1913)
 Aedes (Ochlerotatus) dorsalis (Meigen, 1830)
 Aedes (Ochlerotatus) excrucians (Walker, 1856)
 Aedes (Ochlerotatus) flavescentes (Müller, 1764)
 Aedes (Ochlerotatus) hexodontus (Dyar, 1916)
 Aedes (Ochlerotatus) hungaricus (Mihályi, 1955)
 Aedes (Ochlerotatus) intrudens (Dyar, 1919)
 Aedes (Ochlerotatus) leucomelas (Meigen, 1804)
 Aedes (Ochlerotatus) nigrinus (Eckstein, 1918)
 Aedes (Ochlerotatus) pullatus (Coquillett, 1904)
 Aedes (Ochlerotatus) punctor (Kirby, 1837)
 Aedes (Ochlerotatus) refiki (Medschid, 1928)
 Aedes (Ochlerotatus) riparius (Dyar & Knab, 1907)
 Aedes (Ochlerotatus) rusticus (Rossi, 1790)
 Aedes (Ochlerotatus) sticticus (Meigen, 1838)
 Aedes (Stegomyia) aegypti (Linnaeus, 1762)
 Aedes (Stegomyia) albopictus Skuse, 1895
 Coquillettidia (Coquillettidia) richiardii (Ficalbi, 1889)
 Culex (Barraudius) modestus Ficalbi, 1889
 Culex (Culex) pipiens pipiens Linnaeus, 1758
 Culex (Culex) pipiens pipiens *biotype molestus* Forskal, 1775
 Culex (Culex) torrentium Martini, 1925
 Culex (Neoculex) hortensis Ficalbi, 1889
 Culex (Neoculex) martinii Medschid, 1930
 Culex (Neoculex) territans Walker, 1856

Culiseta (Allotheobaldia) longiareolata (Macquart, 1838)
Culiseta (Culicella) fumipennis (Stephens, 1825)
Culiseta (Culicella) litorea (Shute, 1928)
Culiseta (Culicella) morsitans (Theobald, 1901)
Culiseta (Culicella) ochroptera (Peus, 1935)
Culiseta (Culiceta) alaskaensis (Ludlow, 1906)
Culiseta (Culiseta) annulata (Schrank, 1776)
Culiseta (Culiseta) glaphyoptera (Schiner, 1864)
Culiseta (Culiseta) subochrea (Edwards, 1921)
Orthopodomyia (Orthopodomyia) pulcripalpis (Rondani, 1872)
Uranotaenia (Pseudoficalbia) unguiculata Edwards, 1913

Key to Larvae and Pupae from Central and Western Europe

Wolfgang Lechthaler & Manfred Car

2023



Title: Simuliidae - Key to Larvae and Pupae from Central and Western Europe; DVD-Edition
Authors: Wolfgang Lechthaler & Manfred Car (2023)

Copyright: 2023 by Wolfgang Lechthaler; Eutaxa; lechthaler@eutaxa.com; www.eutaxa.com

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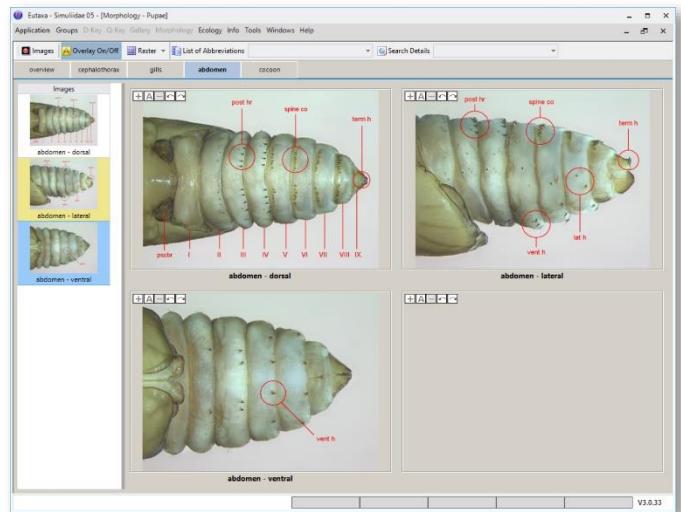
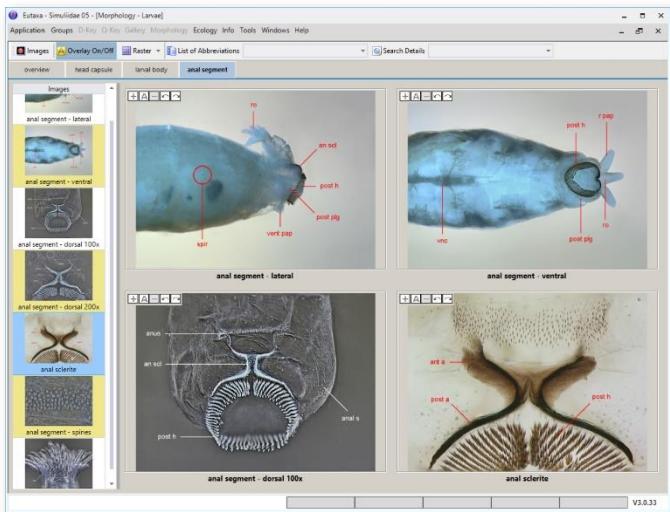
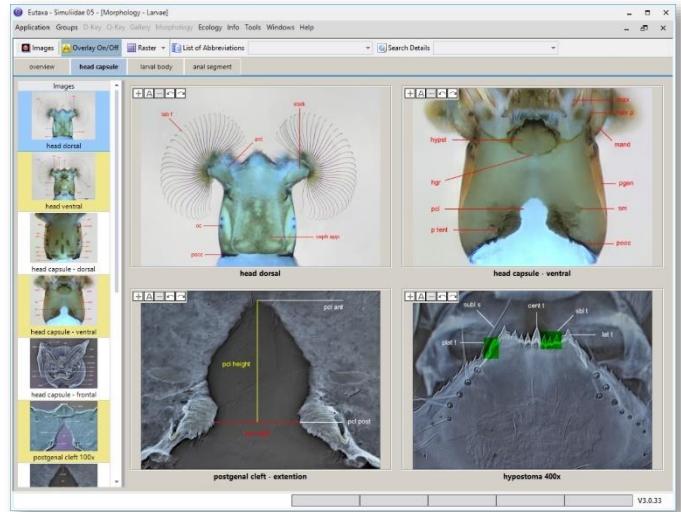
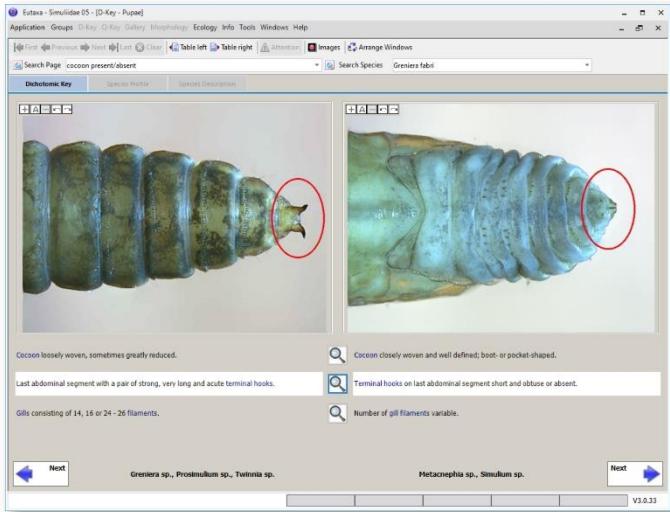
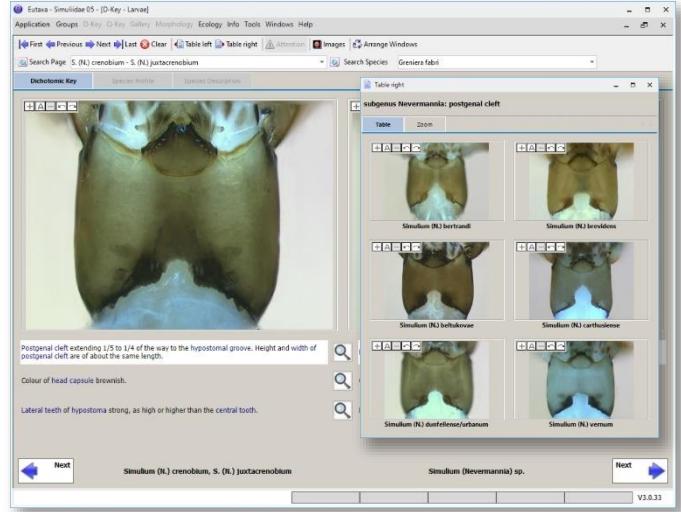
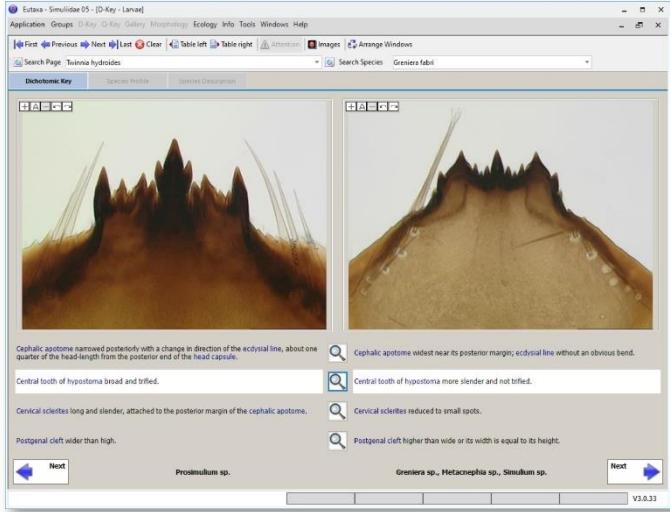
€ 500,00

This product offers a versatile application for identifying larvae and pupae of the family Simuliidae (O. Diptera, SO. Nematocera). 68 species of Central- and Western Europe, including the British Isles, are documented in detail and numerous illustrations of relevant morphological characters can be queried from an extensive picture database and compared with each other. A range of ecological and systematic dates shall enhance the knowledge of this invertebrate group, significant for the classification of running waters and important as vectors of serious diseases to humans and livestock.

More information about this product, how to order, and a sample of images from the picture data base is given under the internet address www.eutaxa.com.

For questions, concerning this product, please send an E-Mail to lechthaler@eutaxa.com.

Software Images: D-Key, Morphology



Software Images: Gallery, Ecology

The image displays six screenshots of the Eutaxa software interface, arranged in a 3x2 grid. The top row shows morphological comparisons of hypostoma and cephalic apotome for species like *Greniera fabri*, *Metacanthiphilus amphora*, and *Prosimulum rufipes*. The middle row shows hypostoma and pre-oral ridge for *Metacanthiphilus lyra*. The bottom row shows cocoon lateral views for *Simulium (Simulium) argenteostriatum*, *Simulium (Simulium) bezzi*, *Simulium (Nevermannia) lundstromi*, and *Simulium (Simulium) hispaniolae*. The right column shows ecological distribution maps for *Simulium (Revermannia) brevitarsis*, *Simulium (Trichodagnus) gallprovinciale*, *Simulium (Wilhelmi) equum*, and *Simulium (Simulium) hispaniolae* across Europe. The left column shows taxonomic details for *Simulium (Simulium) hispaniolae*, including its systematic position, longitudinal distribution, saprobic valence, and ecological parameters.

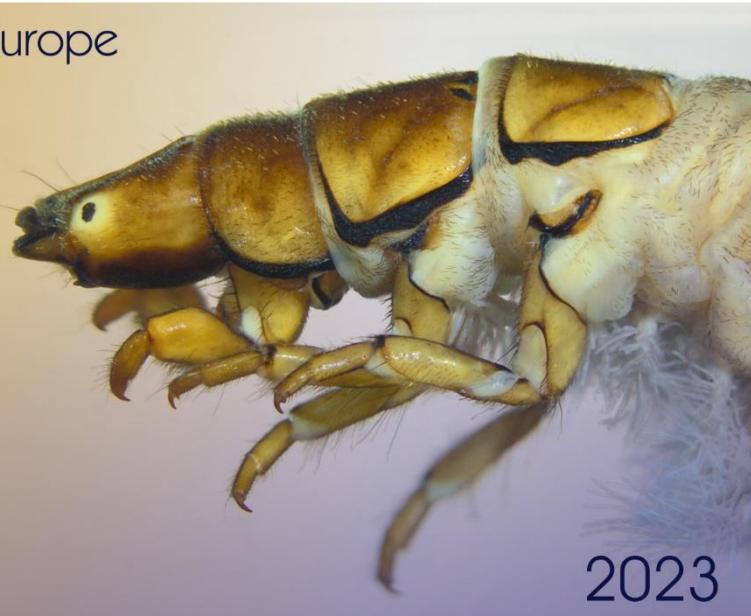
List of Species, covered by the Key

Prosimulium fulvipes (Edwards, 1921)
Prosimulium hirtipes (Fries, 1824) (complex)
Prosimulium latimucro (Enderlein, 1925)
Prosimulium rufipes (Meigen, 1830)
Prosimulium tomosvaryi (Enderlein, 1921)
Greniera fabri Doby & David, 1959
Metacnephia amphora Ladle & Bass, 1975
Metacnephia blanci (Grenier & Theodorides, 1953)
Metacnephia lyra (Lundström, 1911)
Simulium (Boophthora) erythrocephalum (De Geer, 1776)
Simulium (Byssodon) maculatum (Meigen, 1804)
Simulium (Eusimulium) angustipes Edwards, 1915
Simulium (Eusimulium) aureum Fries, 1824
Simulium (Eusimulium) petricolum (Rivosecchi, 1963)
Simulium (Eusimulium) rubzovianum (Sherban, 1961)
Simulium (Hellichiella) latipes (Meigen, 1804)
Simulium (Nevermannia) angustitarse (Lundström, 1911)
Simulium (Nevermannia) armoricum Doby & David, 1961
Simulium (Nevermannia) bavaricum Seitz & Adler, 2009
Simulium (Nevermannia) beltukovae (Rubtsov, 1956)
Simulium (Nevermannia) bertrandi Grenier & Dorier, 1959
Simulium (Nevermannia) brevidens (Rubtsov, 1956)
Simulium (Nevermannia) carthusiense Grenier & Dorier, 1959
Simulium (Nevermannia) codreanui (Sherban, 1958)
Simulium (Nevermannia) costatum Friedrichs, 1920
Simulium (Nevermannia) crenobium (Knoz, 1961)
Simulium (Nevermannia) cryophilum (Rubtsov, 1959) (complex)
Simulium (Nevermannia) dunfellense Davies, 1966
Simulium (Nevermannia) juxtacrenobium Bass & Brockhouse, 1990
Simulium (Nevermannia) lundstromi (Enderlein, 1921)
Simulium (Nevermannia) naturale Davies 1966
Simulium (Nevermannia) oligotuberculatum (Knoz, 1965)
Simulium (Nevermannia) quasidecolletum (Crosskey, 1988)
Simulium (Nevermannia) urbanum Davies, 1966
Simulium (Nevermannia) vernum Macquart, 1826 (complex)
Simulium (Rubzovia) lamachi Doby & David, 1960
Simulium (Schoenbaueria) nigrum (Meigen, 1804)
Simulium (Simulium) argenteostriatum Strobl, 1898
Simulium (Simulium) argyreatum Meigen, 1838
Simulium (Simulium) bezzii (Corti, 1914)
Simulium (Simulium) colombaschense (Fabricius, 1787)
Simulium (Simulium) degrangei Dorier & Grenier, 1960
Simulium (Simulium) hispaniola Grenier & Bertrand, 1954
Simulium (Simulium) ibariense Zivkovich & Grenier, 1959
Simulium (Simulium) intermedium Roubaud, 1906
Simulium (Simulium) maximum (Knoz, 1961)
Simulium (Simulium) monticola Friedrichs, 1920
Simulium (Simulium) morsitans Edwards, 1915
Simulium (Simulium) noelleri Friedrichs, 1920
Simulium (Simulium) ornatum Meigen, 1818 (complex)
Simulium (Simulium) paramorsitans Rubtsov, 1956
Simulium (Simulium) posticatum Meigen, 1838
Simulium (Simulium) reptans Linnaeus, 1758
Simulium (Simulium) reptantoides Carlsson, 1962
Simulium (Simulium) rostratum (Lundström, 1911)

Simulium (Simulium) trifasciatum Curtis, 1839
Simulium (Simulium) tuberosum (Lundström, 1911)
Simulium (Simulium) variegatum Meigen, 1818
Simulium (Simulium) voilense Sherban, 1960
Simulium (Simulium) vulgare Dorogostaisky, Rubtsov & Vlasenko, 1935
Simulium (Simulium) xanthinum Edwards, 1933
Simulium (Trichodagmia) auricoma Meigen, 1818
Simulium (Trichodagmia) galloprovinciale Giudicelli, 1963
Simulium (Wilhelmia) balcanicum (Enderlein, 1924)
Simulium (Wilhelmia) equinum (Linnaeus, 1758)
Simulium (Wilhelmia) lineatum (Meigen, 1804)
Simulium (Wilhelmia) pseudequinum Séguy, 1921
Twinnia hydroides (Novák, 1956)

Key to Larvae from Central Europe

Wolfgang Lechthaler
Wolfram Stockinger



Title: Trichoptera - Key to Larvae from Central Europe; DVD-Edition
Authors: Wolfgang Lechthaler & Wolfram Stockinger (2023)

Copyright: 2023 by Lechthaler Wolfgang, Eutaxa; lechthaler@eutaxa.com; www.eutaxa.com

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Trichoptera 23 - Product Information

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Lechthaler Wolfgang, Stockinger Wolfram

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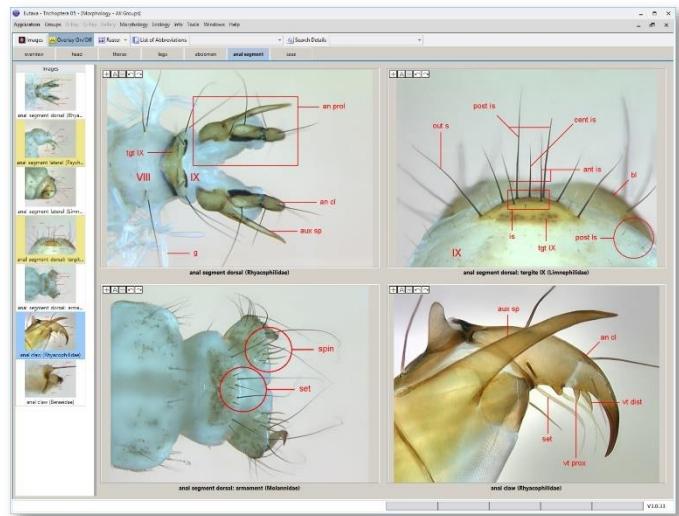
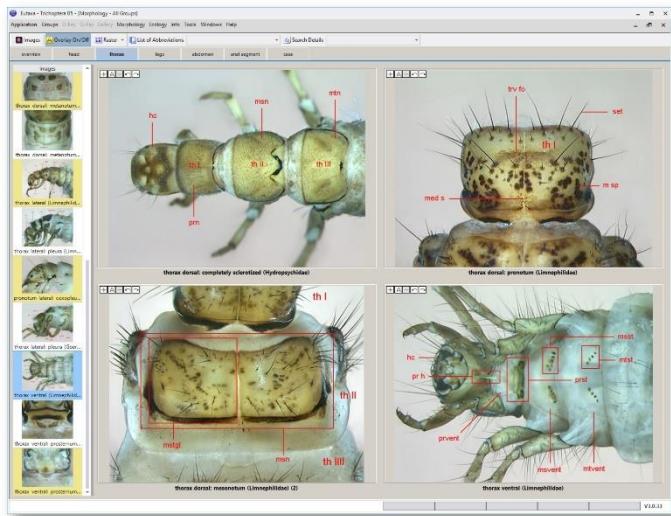
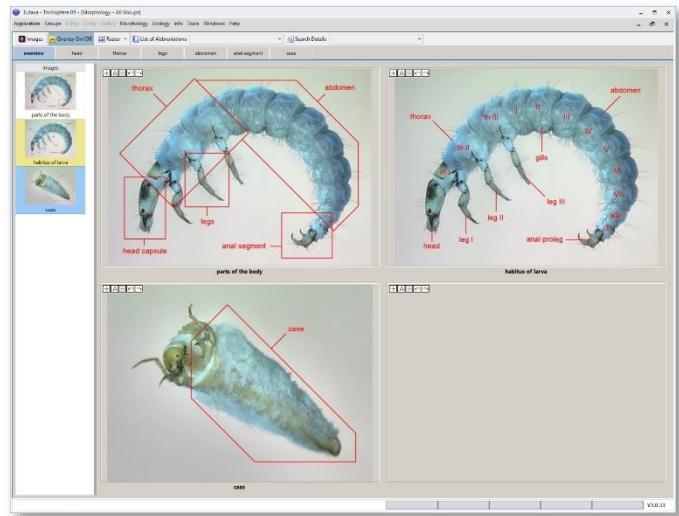
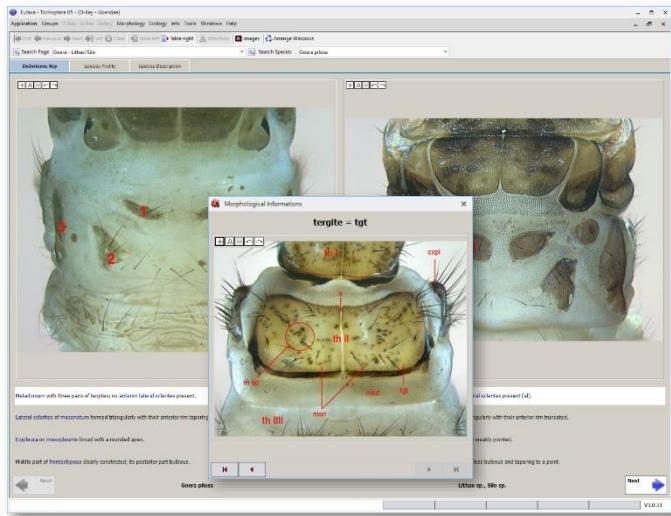
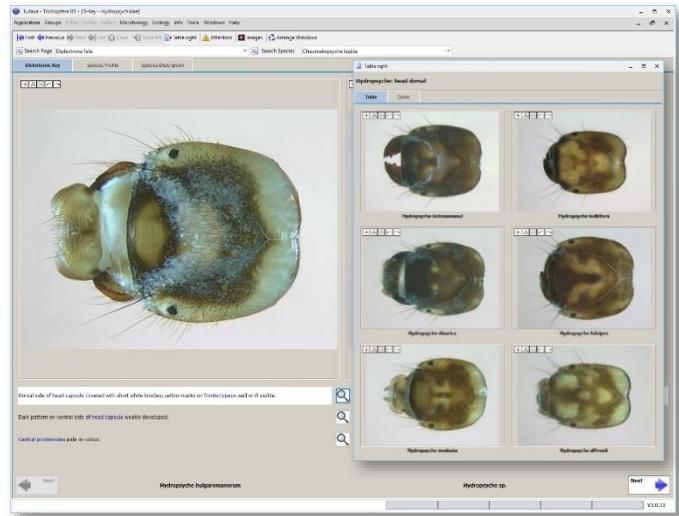
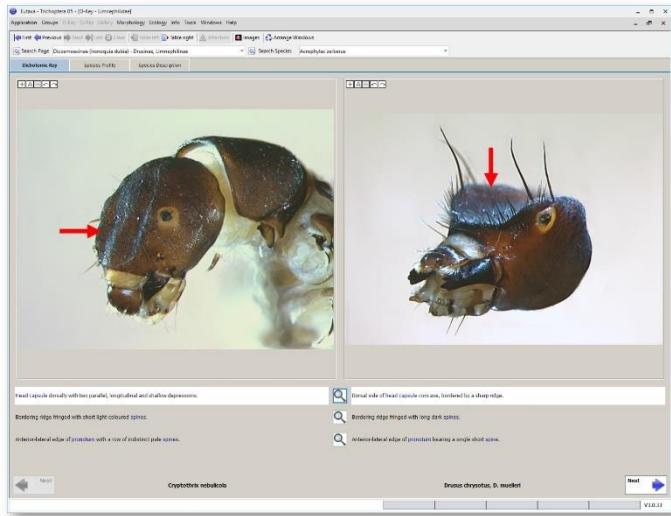
€ 600,00

This product offers a versatile application for the identification of last instar larvae of the order Trichoptera (Cl. Insecta). About 292 species of Central Europe are documented precisely and numerous illustrations of relevant morphological characters can be queried from an extensive picture database and compared with each other. A range of ecological and systematic dates shall enhance the knowledge of this invertebrate group, significant for the classification of standing or running waters.

More information about this product, how to order, and a sample of images from the picture data base is given under the internet address www.eutaxa.com.

For questions, concerning this product, please send an E-Mail to lechthaler@eutaxa.com.

Software Images: D-Key, Morphology



Software Images: Gallery, Ecology

The screenshot shows the Entokey software interface. At the top, there's a menu bar with 'File', 'Edit', 'View', 'Image', 'Help', and a toolbar with icons for 'New', 'Open', 'Save', 'Print', 'Exit', 'Copy', 'Paste', 'Delete', 'Find', 'Select', and 'Image'. Below the toolbar is a search bar with placeholder text 'Search Specie...'. A sidebar on the left lists categories: 'Images' (selected), 'Labels', 'Annotations', 'Morphology', 'Identify', 'Tools', 'Help', and 'About'. Under 'Images', there are four sections: 'Larvae' (with sub-options 'Acarinae tracheatae', 'Myrmeleontidae', 'Myrmeleontidae longioris', 'Myrmeleontidae nigra', 'Diptera larva', 'Diptera bacillus', and 'Diptera ectota'), 'Adults' (with sub-options 'Atrichopodidae', 'Atrichopodidae atromaculata', 'Atrichopodidae claviger', 'Coniopterygidae', 'Coniopterygidae impressicrus', 'Lepidoptera leucotricha', 'Mystacides longicornis', 'Choristidae furca', and 'Choristidae texensis'), and 'Other' (with sub-options 'Acarinae tracheatae', 'Myrmeleontidae', 'Diptera larva', 'Diptera bacillus', and 'Diptera ectota'). The main area displays a 3x4 grid of images of insect larvae. Each image has a small set of icons above it and a caption below it. The images show various species from different families, including Atrichopodidae, Coniopterygidae, Lepidoptera, and Mystacides.

The screenshot displays the EntoZoom application window. At the top, there's a menu bar with 'File', 'Edit', 'View', 'Image', 'Microscopy', 'Ecology', 'Info', 'Tasks', 'Windows', and 'Help'. Below the menu is a toolbar with icons for 'New', 'Open', 'Save', 'Print', 'Import', 'Export', 'Find', 'Replace', 'Search', and 'Exit'. The main area is divided into several panels. On the left, a vertical stack of thumbnail images shows different views of the fly larva, labeled from top to bottom: 'Drosophila - head dorsal', 'Drosophila - head ventral', 'Drosophila - thorax dorsal', 'Drosophila - thorax ventral', 'Drosophila - prothorax', 'Drosophila - mesothorax', 'Drosophila - metathorax', 'Drosophila - leg I', 'Drosophila - anal protuberance lateral', and 'Drosophila - caeca ventral'. Each thumbnail has a small yellow box to its left indicating it's a 'Drosophila' image. To the right of these thumbnails are three larger, detailed 3D models of the larva: 'Drosophila - head dorsal' (top), 'Drosophila - thorax dorsal' (middle), and 'Drosophila - prothorax' (bottom). Each of these large models has a set of icons above it. At the very bottom of the screen, there's a status bar with the text 'Zoom: 0.000x 0.000y 0.000z' and a legend: 'Alphabeta' with a blue square, 'Lipofuscin' with a red square, 'Olf Pts.' with a green square, and 'Olf Mem' with a purple square.

The screenshot shows the MorphoJ software interface with a menu bar at the top. The main window displays a 3x4 grid of 12 digital images of insect heads in dorsal view. Each image is labeled with its name and 'head-dorsal' below it. The images represent different species and morphological variations. The software interface includes various toolbars and a status bar at the bottom.

The screenshot shows the MorphoJ software interface with the following details:

- Systematic Tab:**
 - Genus: *Agipetius* Author: Curtiss, 1834
 - Species: *schlegeli* Author: Curtiss, 1834
 - Family: *Glossosomatidae* Author: Walkergren, 1891
 - Subfamily: *Apertinae* Author: Walkergren, 1891
- Morphospace Plot:**

Landmark	Value 1	Value 2
Cranial	0	3
Capitulum	1	5
Mesethmoid	2	3
Hypopharynx	3	1
Epipharynx	4	-
Metapostoral	5 Index	1.4
Hypopostoral	5 Weight	1
Utricular	-	-
Pronotal	-	-
- Data Matrix:** A table showing morphometric data for various landmarks across different specimens.

List of Species, covered by the Key

Family Apataniidae

- Apatania auricula* (Forsslund, 1930)
Apatania eatoniana McLachlan, 1880
Apatania fimbriata (Pictet, 1834)
Apatania muliebris McLachlan, 1866

Family Beraeidae

- Beraea dira* McLachlan, 1875
Beraea maurus (Curtis, 1834)
Beraea pullata (Curtis, 1834)
Beraeamyia hrabei Mayer, 1937
Beraeamyia squamosa Mosely, 1930
Beraeodes minutus (Linnaeus, 1761)
Ernodes articulatus (Pictet, 1834)
Ernodes vicinus (McLachlan, 1879)

Family Brachycentridae

- Brachycentrus maculatus* (Fourcroy, 1785)
Brachycentrus montanus Klapálek, 1892
Brachycentrus subnubilus Curtis, 1834
Micrasema longulum McLachlan, 1876
Micrasema minimum McLachlan, 1876
Micrasema morosum (McLachlan, 1868)
Micrasema setiferum (Pictet, 1834)

Family Ecnomidae

- Ecnomus deceptor* McLachlan, 1884
Ecnomus tenellus (Rambur, 1842)

Family Glossosomatidae

- Agapetus delicatulus* McLachlan, 1884
Agapetus fuscipes Curtis, 1834
Agapetus laniger (Pictet, 1834)
Agapetus nimbulus McLachlan, 1879
Agapetus ochripes Curtis, 1834
Catagapetus nigrans McLachlan, 1884
Glossosoma bifidum McLachlan, 1879
Glossosoma boltoni Curtis, 1834
Glossosoma conformis Neboiss, 1963
Glossosoma intermedium Klapálek, 1892
Synagapetus dubitans McLachlan, 1879
Synagapetus iridipennis McLachlan, 1879
Synagapetus krawanyi Ulmer, 1938
Synagapetus moselyi Ulmer, 1938

Family Goeridae

- Goera pilosa* (Fabricius, 1775)
Lithax niger (Hagen, 1859)
Lithax obscurus (Hagen, 1859)
Silo nigricornis (Pictet, 1834)
Silo pallipes (Fabricius, 1781)
Silo piceus (Brauer, 1857)

Family Helicopsychidae

- Helicopsyche* spp.

Family Hydropsychidae

- Cheumatopsyche lepida* (Pictet, 1834)
Diplectrona felix McLachlan, 1878
Hydropsyche angustipennis (Curtis, 1834)
Hydropsyche botosaneanui Marinkovic-G., 1966
Hydropsyche bulbifera McLachlan, 1878
Hydropsyche bulgaromanorum Malicky, 1977
Hydropsyche contubernalis McLachlan, 1865
Hydropsyche dinarica Marinkovic-G., 1979
Hydropsyche exocellata Dufour, 1841
Hydropsyche fulvipes (Curtis, 1834)
Hydropsyche guttata Pictet, 1834
Hydropsyche incognita Pitsch, 1993
Hydropsyche instabilis (Curtis, 1834)
Hydropsyche modesta Navas, 1925
Hydropsyche ornatula McLachlan, 1878
Hydropsyche pellucidula (Curtis, 1834)
Hydropsyche saxonica McLachlan, 1884
Hydropsyche silfvenii Ulmer, 1906
Hydropsyche siltalai Doebler, 1963
Hydropsyche tenuis Navas, 1932

Family Hydroptilidae

- Agraylea multipunctata* Curtis, 1834
Agraylea sexmaculata Curtis, 1834
Allotrichia pallicornis (Eaton, 1873)
Hydroptila spp.
Ithytrichia lamellaris Eaton, 1873
Microptila minutissima Ris, 1897
Orthotrichia costalis (Curtis, 1834)
Oxyethira spp.
Stactobia eatoniella McLachlan, 1880
Stactobia moselyi Kimmins, 1949
Stactobiella risi (Felber, 1908)
Tricholeiochiton fagesii (Guinard, 1879)

Family Lepidostomatidae

- Crunoecia irrorata* (Curtis, 1834)
Crunoecia kempnyi Morton, 1901
Lepidostoma basale (Kolenati, 1848)
Lepidostoma hirtum (Fabricius, 1775)

Family Leptoceridae

- Adicella cremisa* Malicky, 1972
Adicella filicornis (Pictet, 1834)
Adicella reducta (McLachlan, 1865)
Athripsodes albifrons (Linnaeus, 1758)
Athripsodes aterrimus (Stephens, 1836)
Athripsodes bilineatus (Linnaeus, 1758)
Athripsodes cinereus (Curtis, 1834)
Athripsodes commutatus (Rostock, 1874)
Ceraclea albimacula (Rambur, 1842)
Ceraclea annulicornis (Stephens, 1836)
Ceraclea dissimilis (Stephens, 1836)
Ceraclea fulva (Rambur, 1842)

Ceraclea nigronervosa (Retzius, 1783)
Ceraclea senilis (Burmeister, 1839)
Erotesis baltica McLachlan, 1877
Leptocerus interruptus (Fabricius, 1775)
Leptocerus lusitanicus (McLachlan, 1884)
Leptocerus tineiformis (Curtis, 1834)
Mystacides azurea (Linnaeus, 1761)
Mystacides longicornis (Linnaeus, 1758)
Mystacides nigra (Linnaeus, 1758)
Oecetis furva (Rambur, 1842)
Oecetis lacustris (Pictet, 1834)
Oecetis notata (Rambur, 1842)
Oecetis ochracea (Curtis, 1825)
Oecetis testacea (Curtis, 1834)
Oecetis tripunctata (Fabricius, 1793)
Setodes argentipunctellus McLachlan, 1877
Setodes punctatus (Fabricius, 1793)
Setodes viridis (Fourcroy, 1785)
Triaenodes bicolor (Curtis, 1834)
Ylodes conspersus (Rambur, 1842)
Ylodes reuteri (McLachlan, 1880)
Ylodes simulans (Tjeder, 1929)

Family Limnephilidae

Acrophylax zerberus Brauer, 1867
Allogamus auricollis (Pictet, 1834)
Allogamus ligonifer (McLachlan, 1876)
Allogamus uncatus (Brauer, 1857)
Anabolia brevipennis (Curtis, 1834)
Anabolia furcata Brauer, 1857
Anabolia nervosa (Curtis, 1834)
Anisogamus difformis (McLachlan, 1867)
Annitella obscurata (McLachlan, 1876)
Annitella thuringica (Ulmer, 1909)
Anomalopterygella chauviniana (Stein, 1874)
Asynarchus lapponicus (Zetterstedt, 1840)
Chaetopterygopsis macrachlani Stein, 1874
Chaetopteryx fusca Brauer, 1857
Chaetopteryx major McLachlan, 1876
Chaetopteryx rugulosa Kolenati, 1848
Chaetopteryx villosa (Fabricius, 1789)
Consorophylax consors McLachlan, 1880
Consorophylax styriacus Botosaneanu, 1967
Cryptothrix nebulicola McLachlan, 1867
Drusus adustus (McLachlan, 1867)
Drusus alpinus (Meyer-Duer, 1875)
Drusus annulatus (Stephens, 1837)
Drusus biguttatus (Pictet, 1834)
Drusus chrysotus (Rambur, 1842)
Drusus discolor (Rambur, 1842)
Drusus franzi Schmid, 1956
Drusus melanchaetes McLachlan, 1876
Drusus mixtus (Pictet, 1834)
Drusus monticola McLachlan, 1876
Drusus muelleri McLachlan, 1868
Drusus nigrescens Meyer-Duer, 1875
Drusus trifidus McLachlan, 1868

Ecclisopteryx asterix Malicky, 1979
Ecclisopteryx dalecarlica Kolenati, 1848
Ecclisopteryx guttulata (Pictet, 1834)
Ecclisopteryx madida (McLachlan, 1867)
Enoicyla pusilla (Burmeister, 1839)
Enoicyla reichenbachi (Kolenati, 1848)
Glyphotaelius pellucidus (Retzius, 1783)
Grammotaulius nigropunctatus (Retzius, 1783)
Grammotaulius nitidus (Mueller, 1764)
Grammotaulius submaculatus (Rambur, 1842)
Halesus digitatus (Schrink, 1781)
Halesus radiatus (Curtis, 1834)
Halesus rubricollis (Pictet, 1834)
Halesus tesselatus (Rambur, 1842)
Hydatophylax infumatus (McLachlan, 1865)
Iroquoia dubia (Stephens, 1837)
Leptotaulius gracilis Schmid, 1955
Limnephilus affinis Curtis, 1834
Limnephilus auricula Curtis, 1834
Limnephilus binotatus Curtis, 1834
Limnephilus bipunctatus Curtis, 1834
Limnephilus borealis (Zetterstedt, 1840)
Limnephilus centralis Curtis, 1834
Limnephilus coenosus Curtis, 1834
Limnephilus decipiens (Kolenati, 1848)
Limnephilus elegans Curtis, 1834
Limnephilus extricatus McLachlan, 1865
Limnephilus flavicornis (Fabricius, 1787)
Limnephilus fuscicornis (Rambur, 1842)
Limnephilus fuscinervis (Zetterstedt, 1840)
Limnephilus germanus McLachlan, 1875
Limnephilus griseus (Linnaeus, 1758)
Limnephilus hirsutus (Pictet, 1834)
Limnephilus ignavus McLachlan, 1865
Limnephilus incisus Curtis, 1834
Limnephilus lunatus Curtis, 1834
Limnephilus luridus Curtis, 1834
Limnephilus marmoratus Curtis, 1834
Limnephilus nigriceps (Zetterstedt, 1840)
Limnephilus politus McLachlan, 1865
Limnephilus rhombicus (Linnaeus, 1758)
Limnephilus sparsus Curtis, 1834
Limnephilus stigma Curtis, 1834
Limnephilus subcentralis Brauer, 1857
Limnephilus vittatus (Fabricius, 1798)
Melampophylax austriacus Malicky, 1990
Melampophylax melampus (McLachlan, 1876)
Melampophylax mucoreus (Hagen, 1861)
Melampophylax nepos (McLachlan, 1880)
Mesophylax aspersus (Rambur, 1842)
Mesophylax impunctatus McLachlan, 1884
Metanoea flavipennis (Pictet, 1834)
Metanoea rhaetica Schmid, 1955
Micropterna lateralis (Stephens, 1837)
Micropterna nycterobia McLachlan, 1875
Micropterna sequax McLachlan, 1875
Micropterna testacea (Gmelin, 1789)
Nemotaulius punctatolineatus (Retzius, 1783)

Parachiona picicornis (Pictet, 1834)
Potamophylax cingulatus (Stephens, 1837)
Potamophylax latipennis (Curtis, 1834)
Potamophylax luctuosus (Piller & Mitterp., 1783)
Potamophylax nigricornis (Pictet, 1834)
Potamophylax rotundipennis (Brauer, 1857)
Pseudopsilopteryx zimmeri (McLachlan, 1876)
Rhadicoleptus alpestris (Kolenati, 1848)
Stenophylax permistus McLachlan, 1895
Stenophylax vibex (Curtis, 1834)

Family Molannidae

Molanna albicans (Zetterstedt, 1840)
Molanna angustata Curtis, 1834
Molannodes tinctus (Zetterstedt, 1840)

Family Odontoceridae

Odontocerum albicine (Scopoli, 1763)

Family Philopotamidae

Chimarra marginata (Linnaeus, 1767)
Philopotamus ludificatus McLachlan, 1878
Philopotamus montanus (Donovan, 1813)
Philopotamus variegatus (Scopoli, 1763)
Wormaldia copiosa (McLachlan, 1868)
Wormaldia occipitalis (Pictet, 1834)
Wormaldia subnigra McLachlan, 1865

Family Phryganeidae

Agrypnia obsoleta (Hagen, 1864)
Agrypnia pagetana Curtis, 1835
Agrypnia picta Kolenati, 1848
Agrypnia varia (Fabricius, 1793)
Hagenella clathrata (Kolenati, 1848)
Oligostomis reticulata (Linnaeus, 1761)
Oligotricha striata (Linnaeus, 1758)
Phryganea bipunctata Retzius, 1783
Phryganea grandis Linnaeus, 1758
Trichostegia minor (Curtis, 1834)

Family Polycentropodidae

Cyrnus crenaticornis (Kolenati, 1859)
Cyrnus flavidus McLachlan, 1864
Cyrnus insolitus McLachlan, 1878
Cyrnus trimaculatus (Curtis, 1834)
Holocentropus dubius (Rambur, 1842)
Holocentropus picicornis (Stephens, 1836)
Holocentropus stagnalis (Albarda, 1874)
Neureclipsis bimaculata (Linnaeus, 1758)
Plectrocnemia brevis McLachlan, 1871
Plectrocnemia conspersa (Curtis, 1834)
Plectrocnemia geniculata McLachlan, 1871
Polycentropus excisus Klapálek, 1894
Polycentropus flavomaculatus (Pictet, 1834)
Polycentropus irroratus Curtis, 1835
Polycentropus kingi McLachlan, 1881

Family Psychomyiidae

Lype phaeopa (Stephens, 1836)
Lype reducta (Hagen, 1868)
Psychomyia fragilis (Pictet, 1834)
Psychomyia klapaleki Malicky, 1995
Psychomyia pusilla (Fabricius, 1781)
Tinodes assimilis McLachlan, 1865
Tinodes dives (Pictet, 1834)
Tinodes maclachlani Kimmins, 1966
Tinodes maculicornis (Pictet, 1834)
Tinodes pallidulus McLachlan, 1878
Tinodes rostocki McLachlan, 1878
Tinodes unicolor (Pictet, 1834)
Tinodes waeneri (Linnaeus, 1758)
Tinodes zelleri McLachlan, 1878

Family Ptilocolepidae

Ptilocolepus granulatus (Pictet, 1834)

Family Rhyacophilidae

Rhyacophila aurata Brauer, 1857
Rhyacophila bonaparti Schmid, 1947
Rhyacophila dorsalis (Curtis, 1834)
Rhyacophila evoluta McLachlan, 1879
Rhyacophila fasciata Hagen, 1859
Rhyacophila glareosa McLachlan, 1867
Rhyacophila hirticornis McLachlan, 1879
Rhyacophila intermedia McLachlan, 1868
Rhyacophila laevis Pictet, 1834
Rhyacophila munda McLachlan, 1862
Rhyacophila nubila (Zetterstedt, 1840)
Rhyacophila obliterate McLachlan, 1863
Rhyacophila pascoei McLachlan, 1879
Rhyacophila philopotamoides McLachlan, 1879
Rhyacophila polonica McLachlan, 1879
Rhyacophila praemorsa McLachlan, 1879
Rhyacophila producta McLachlan, 1879
Rhyacophila pubescens Pictet, 1834
Rhyacophila rectispina McLachlan, 1884
Rhyacophila simulatrix McLachlan, 1879
Rhyacophila stigmatica Kolenati, 1859
Rhyacophila torrentium Pictet, 1834
Rhyacophila tristis Pictet, 1834
Rhyacophila vulgaris Pictet, 1834

Family Sericostomatidae

Notidobia ciliaris (Linnaeus, 1761)
Oecismus monedula (Hagen, 1859)
Sericostoma personatum (Kirby & Spence, 1826)
Sericostoma schneideri Kolenati, 1848

Family Uenoidae

Thremma gallicum McLachlan, 1880

Key to Families of Macroinvertebrates in European Freshwaters

Wolfgang Lechthaler



Title: Macrozoobenthos - Key to Families of Macroinvertebrates in European Freshwaters; DVD-Edition
Author: Wolfgang Lechthaler (2023)

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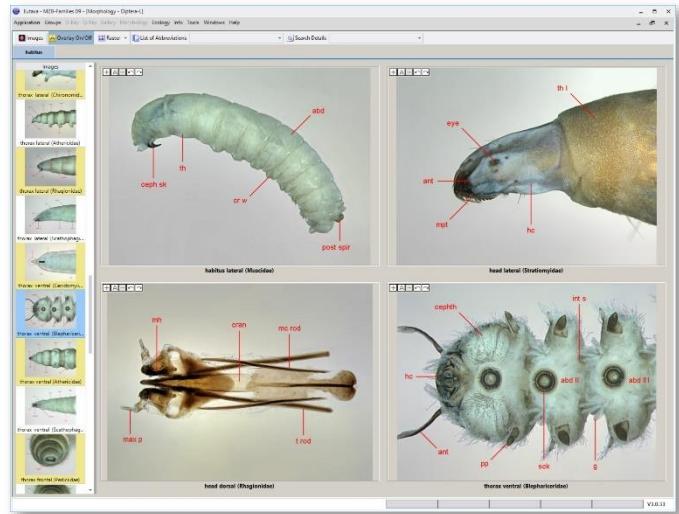
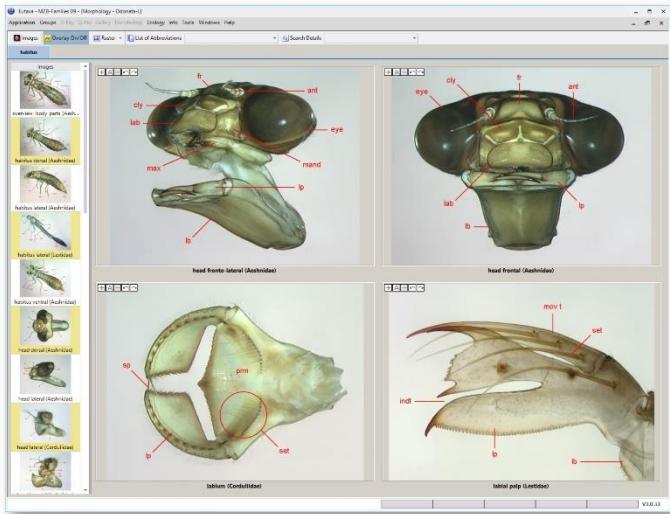
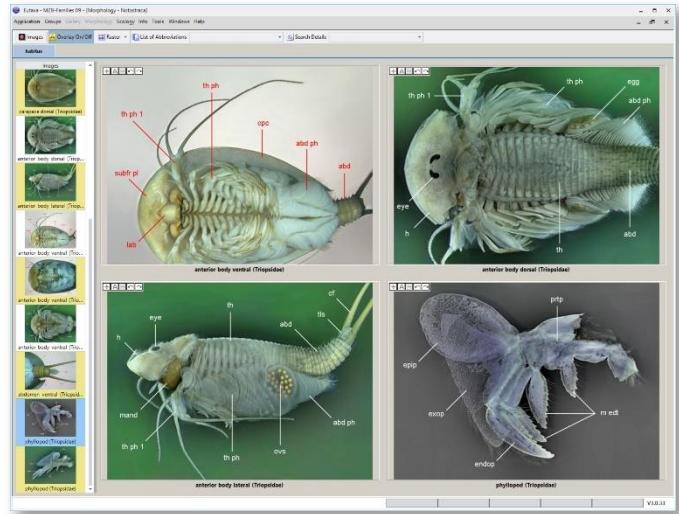
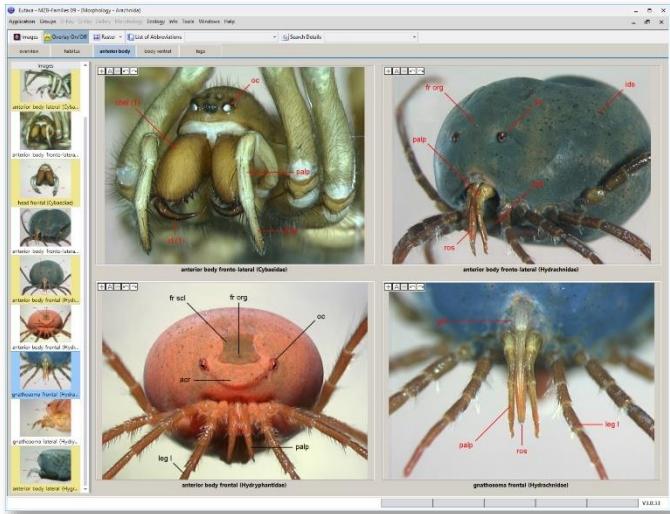
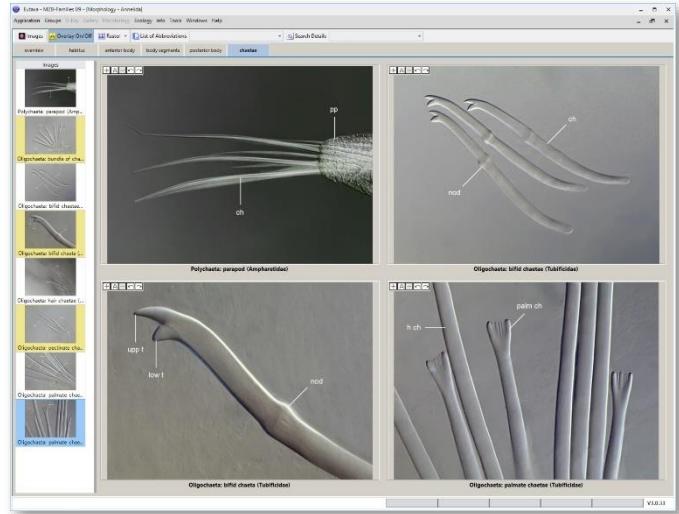
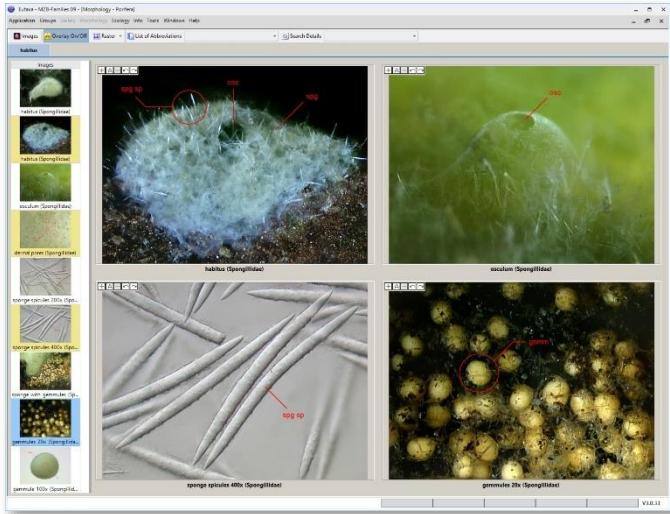
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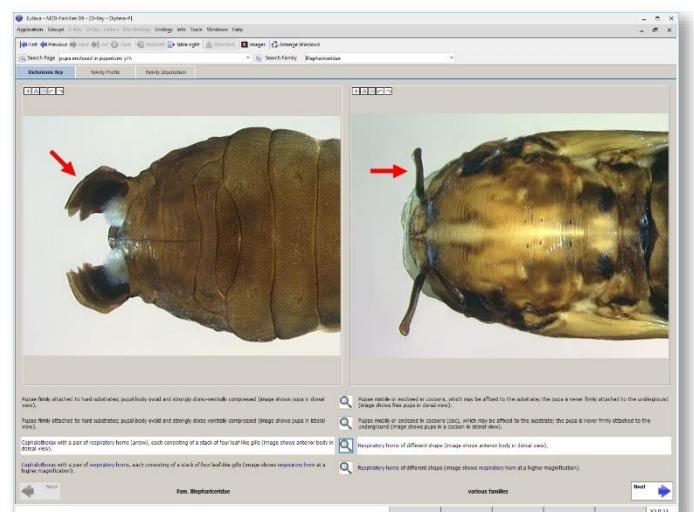
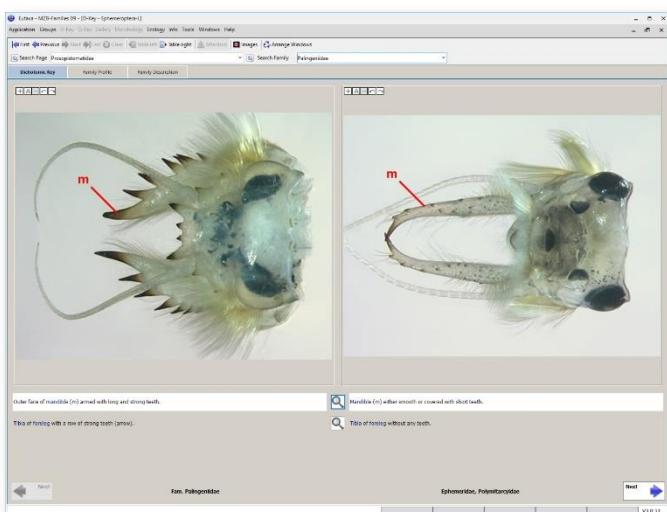
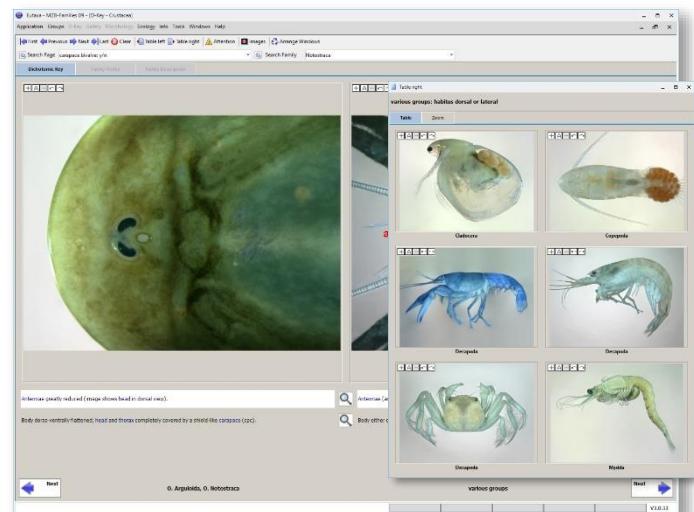
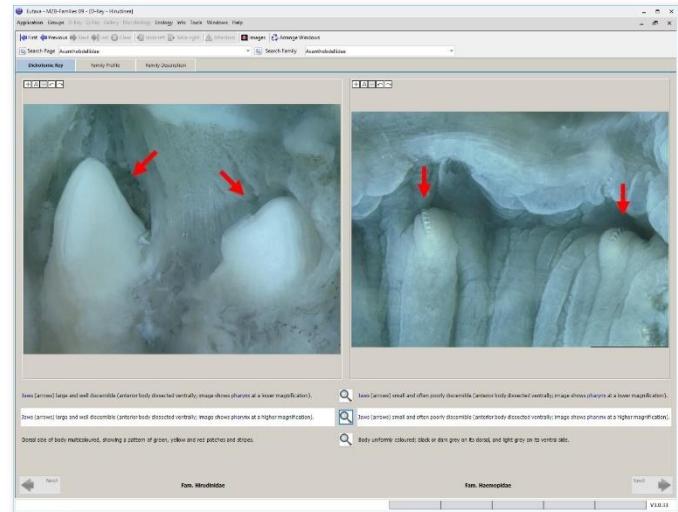
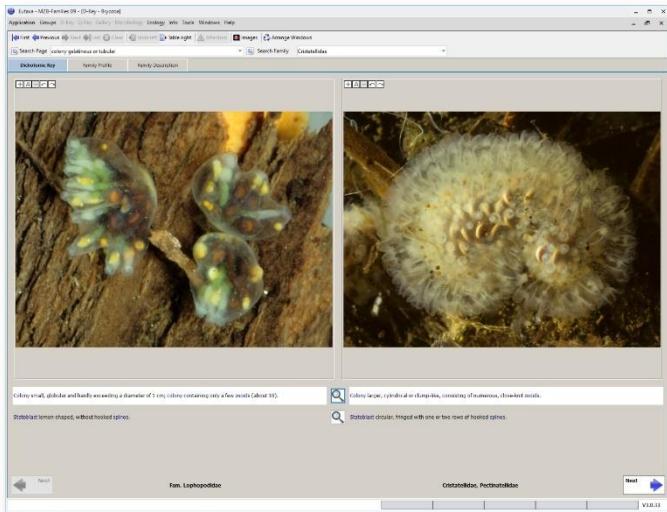
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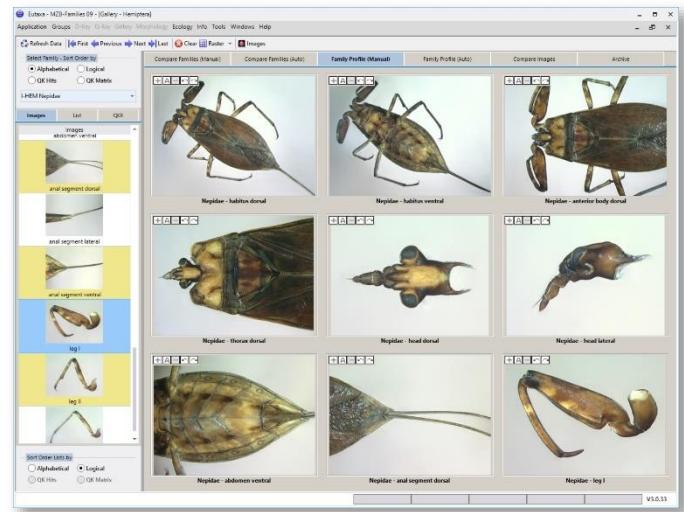
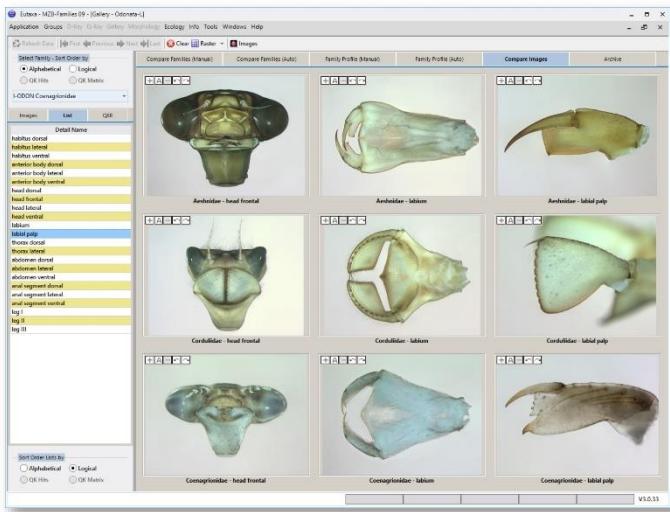
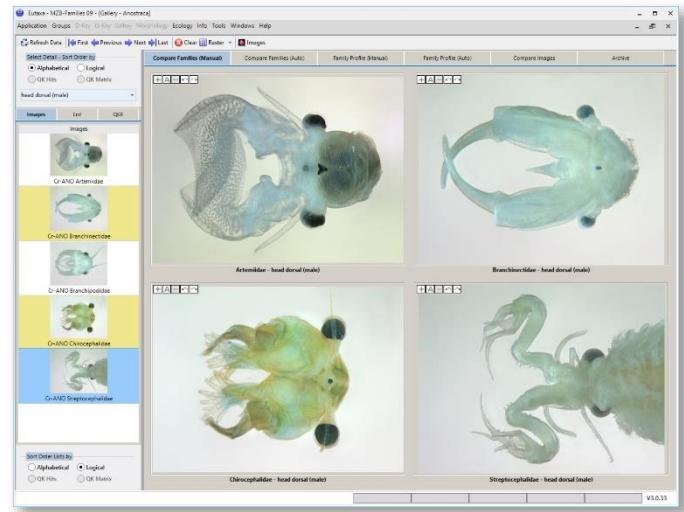
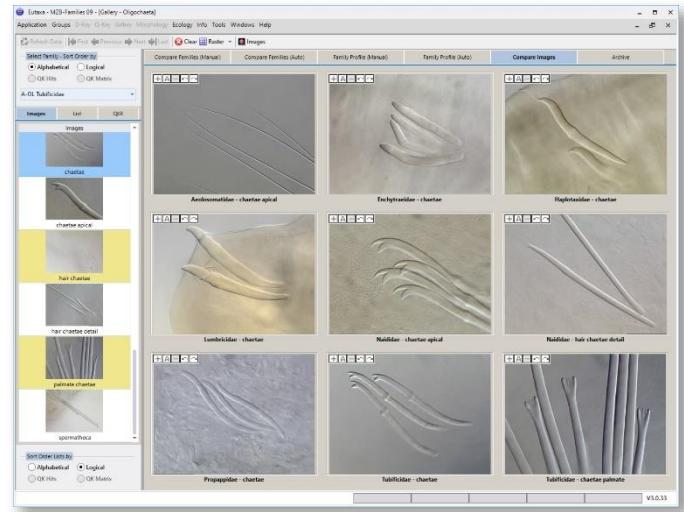
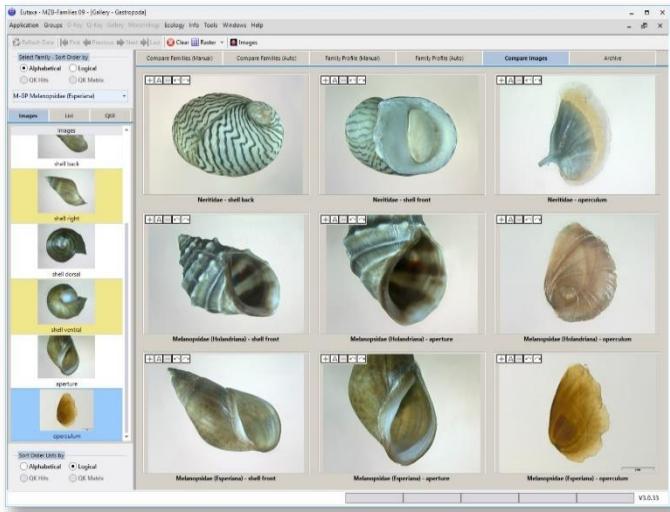
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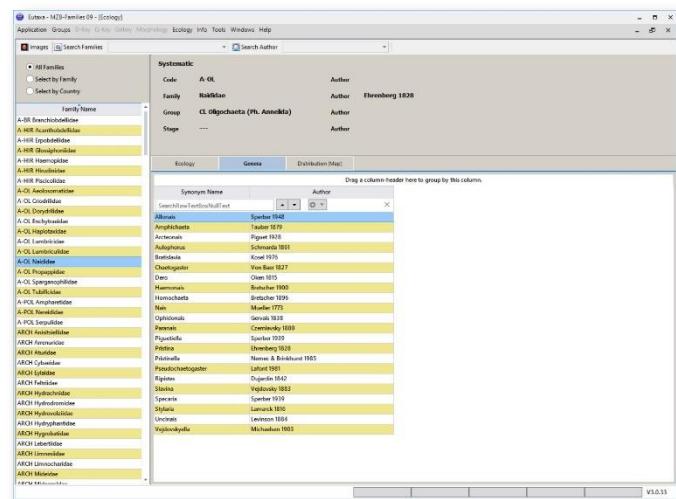
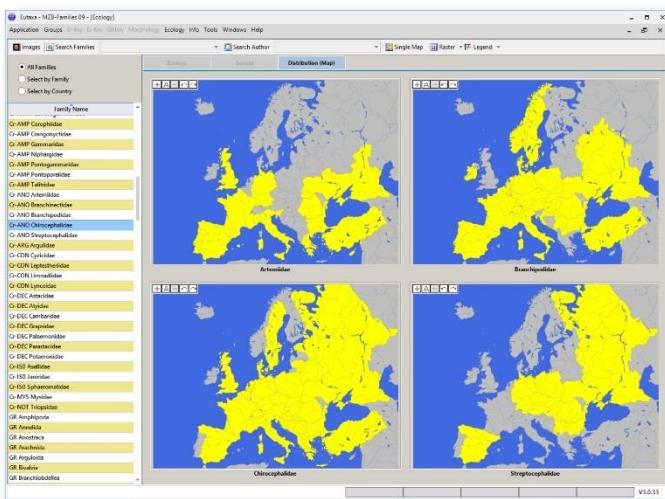
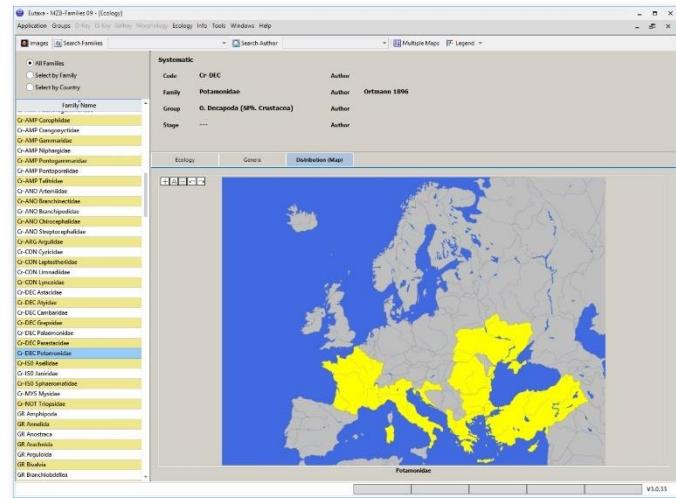
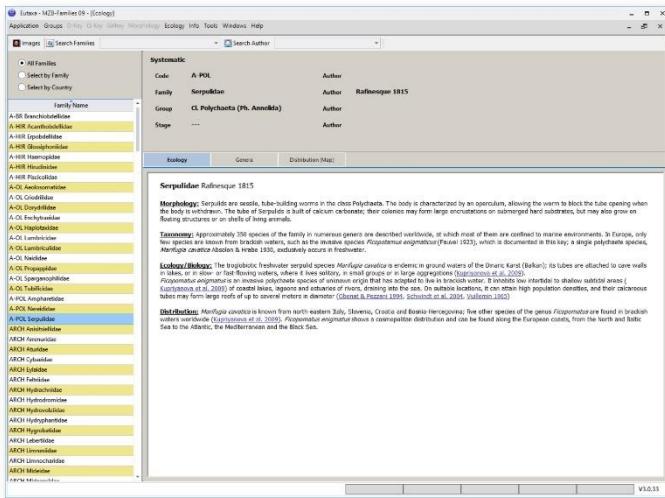
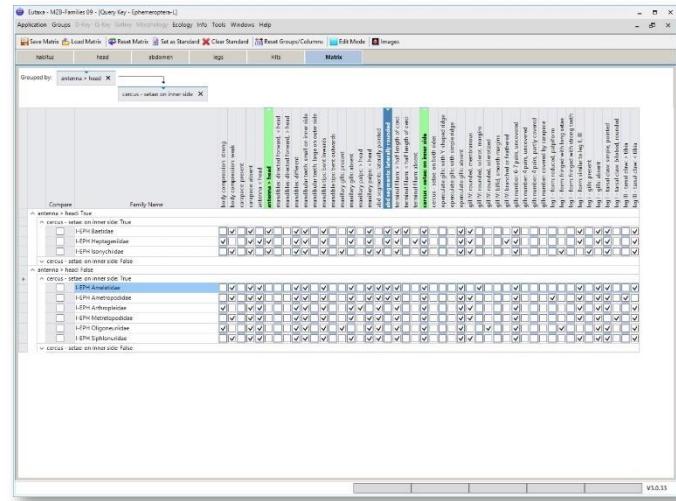
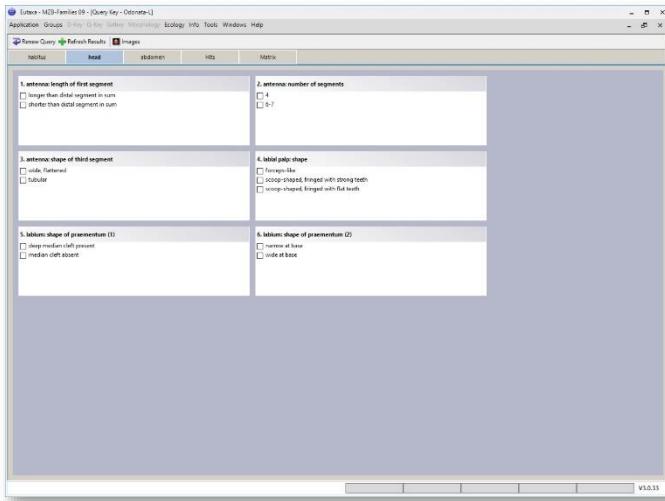
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List of Families, covered by the Key

Phylum Porifera

Spongillidae Gray, 1867

Phylum Cnidaria

Clavidae McGrady, 1859

Hydridae Dana, 1846

Olindiadidae Haeckel, 1879

Phylum Bryozoa

Cristatellidae Allman, 1856

Fredericellidae Hyatt, 1868

Lophopodidae Rogick, 1935

Paludicellidae Allman, 1885

Pectinatellidae Lacourt, 1968

Plumatellidae Allman, 1856

Class Gastropoda

Acroloxidae Thiele, 1931

Assimineidae H. & A. Adams, 1856

Bithyniidae Troschel, 1857

Ellobiidae Pfeiffer, 1854

Emmericiidae Brusina, 1870

Hydrobiidae Troschel, 1857

Lymnaeidae Lamarck, 1812

Melanopsidae Adams & Adams, 1854

Neritidae Lamarck, 1809

Physidae Fitzinger, 1833

Planorbidae Rafinesque, 1815

Succineidae Beck, 1837

Thiaridae Troschel, 1857

Valvatidae Gray, 1840

Viviparidae Lamarck, 1809

Class Bivalvia

Corbiculidae Gray, 1847

Dreissenidae Gray, 1840

Margaritiferidae Haas, 1940

Sphaeriidae Deshayes, 1854

Unionidae Rafinesque, 1820

Phylum Annelida

Class Polychaeta

Ampharetidae Malmgren, 1865

Nereididae Blainville, 1818

Serpulidae Rafinesque, 1815

Class Oligochaeta

Aeolosomatidae Beddard, 1895

Criodrilidae Vejdovsky, 1884

Dorydrilidae Grube, 1851

Enchytraeidae Vejdovsky, 1879

Haplotaxidae Michaelsen, 1900

Lumbricidae Rafinesque-Schmaltz, 1815

Lumbriculidae Vejdovsky, 1884

Naididae Ehrenberg, 1828

Propappidae Coates, 1986

Spanganophilidae Michaelsen, 1918

Tubificidae Vejdovsky, 1876

Class Branchiobdellea

Branchiobdellidae Grube, 1851

Class Hirudinea

Acanthobdellidae Grube, 1851

Erpobdellidae Blanchard, 1894

Glossiphoniidae Vaillant, 1890

Haemopidae Richardson, 1969

Hirudinidae Whitman, 1886

Piscicolidae Johnston, 1865

Phylum Arthropoda

Class Arachnida

Anisitsiellidae Koenike, 1910

Arrenuridae Thor, 1900

Aturidae Thor, 1900

Cybaeidae Banks, 1892

Eylaidae Leach, 1815

Feltiidae Thor, 1929

Hydrachnidae Leach, 1815

Hydrodromidae Viets, 1936

Hydrovolziidae Thor, 1905

Hydryphantidae Piersig, 1896

Hygrobatidae Koch, 1842

Lebertiidae Thor, 1900

Limnesiidae Thor, 1900

Limnocharidae Grube, 1859

Mideidae Thor, 1911

Mideopsidae Koenike, 1910

Oxidae Viets, 1926

Piersigiidae Oudemans, 1902

Pionidae Thor, 1900

Sperchontidae Thor, 1900

Teutoniidae Koenike, 1910

Torrenticolidae Piersig, 1902

Unionicolidae Oudemans, 1909

Subphylum Crustacea

Order Anostraca

Artemiidae Grochowski, 1896

Branchinectidae Daday, 1910

Branchipodidae Simon, 1886

Chirocephalidae Daday, 1910

Streptocephalidae Daday, 1910

Order Conchostraca

Cyzicidae Stebbing, 1910
 Leptestheriidae Daday, 1923
 Limnadiidae Daday, 1923
 Lynceidae Baird, 1845

Order Notostraca

Triopsidae Keilhack, 1909

Order Arguloida

Argulidae Leach, 1819

Order Mysida

Mysidae Haworth, 1825

Order Amphipoda

Acanthogammaridae Garjajeff, 1901
 Corophiidae Dana, 1849
 Crangonyctidae Bousfield, 1973
 Gammaridae Leach, 1814
 Niphargidae Bousfield, 1977
 Pontogammaridae Bousfield, 1977
 Pontoporeiidae Sars, 1882
 Talitridae Stebbing, 1906

Order Isopoda

Asellidae Rafinesque, 1815
 Janiridae Sars, 1899
 Sphaeromatidae Latreille, 1825

Order Decapoda

Astacidae Latreille, 1802
 Atyidae De Haan, 1852
 Cambaridae Hobbs, 1942
 Grapsidae MacLeay, 1838
 Palaemonidae Rafinesque, 1815
 Parastacidae Huxley, 1879
 Potamonidae Ortmann, 1896

Class Insecta**Order Ephemeroptera (nymphs)**

Ameletidae McCafferty, 1991
 Ametropodidae Bengtsson, 1913
 Arthropleidae Balthasar, 1937
 Baetidae Leach, 1815
 Caenidae Newman, 1853
 Ephemerellidae Klapálek, 1909
 Ephemeridae Latreille, 1810
 Heptageniidae Needham, 1901
 Isonychiidae Burks, 1953
 Leptophlebiidae Banks, 1900
 Metretopodidae Traver, 1935
 Neoephemeridae Traver, 1935
 Oligoneuriidae Ulmer, 1914
 Palingeniidae Albarda, 1888
 Polymitarcyidae Banks, 1900
 Potamanthidae Albarda, 1888

Prosopistomatidae Laméere, 1917
 Siphlonuridae Ulmer, 1920 (1888)

Order Odonata (nymphs)

Aeshnidae Rambur, 1842
 Calopterygidae Sélys, 1850
 Coenagrionidae Kirby, 1890
 Cordulegastridae Calvert, 1893
 Corduliidae Kirby, 1890
 Gomphidae Rambur, 1842
 Lestidae Calvert, 1901
 Libellulidae Rambur, 1842
 Platycnemidae Tillyard, 1917

Order Plecoptera (nymphs)

Capniidae Klapálek, 1905
 Chloroperlidae Okamoto, 1912
 Leuctridae Klapálek, 1905
 Nemouridae Newman, 1853
 Perlidae Latreille, 1802
 Perlodidae Klapálek, 1912
 Taeniopterygidae Klapálek, 1905

Order Hemiptera (adults)

Aphelocheiridae Fieber, 1851
 Belostomatidae Leach, 1815
 Corixidae Leach, 1815
 Gerridae Leach, 1815
 Hebridae Amyot & Serville, 1843
 Hydrometridae Billberg, 1820
 Mesoveliidae Douglas & Scott, 1867
 Naucoridae Fallén, 1814
 Nepidae Latreille, 1802
 Notonectidae Leach, 1815
 Pleidae Fieber, 1851
 Veliidae Amyot & Serville, 1843

Order Megaloptera (larvae)

Sialidae Leach, 1815

Order Neuroptera (larvae)

Osmylidae Leach, 1815
 Sisyridae Handlirsch, 1908

Order Coleoptera (larvae & adults)

Chrysomelidae Latreille, 1802
 Curculionidae Latreille, 1802
 Dryopidae Billberg, 1820
 Dytiscidae Leach, 1815
 Elmidae Curtis, 1830
 Gyrinidae Latreille, 1810
 Haliplidae Aube, 1836
 Helophoridae Leach, 1815
 Hydraenidae Mulsant, 1844
 Hydrochidae Thomson, 1859
 Hydrophilidae Latreille, 1802
 Hygrobiidae Ganglbauer, 1892
 Noteridae Bertrand, 1928

Psephenidae Lacordaire, 1854
 Scirtidae Fleming, 1821
 Spercheidae Erichson, 1837

Order Trichoptera (larvae)

Apataniidae Wallengren, 1886
 Beraeidae Wallengren, 1891
 Brachycentridae Ulmer, 1903
 Ecnomidae Ulmer, 1903
 Glossosomatidae Wallengren, 1891
 Goeridae Ulmer, 1903
 Helicopsychidae Ulmer, 1906
 Hydropsychidae Curtis, 1835
 Hydroptilidae Stephens, 1836
 Lepidostomatidae Ulmer, 1903
 Leptoceridae Leach, 1815
 Limnephilidae Kolenati, 1848
 Molannidae Wallengren, 1891
 Odontoceridae Wallengren, 1891
 Philopotamidae Stephens, 1829
 Phryganeidae Leach, 1815
 Polycentropodidae Ulmer, 1903
 Psychomyiidae Walker, 1852
 Ptilocolepidae Martynov, 1913
 Rhyacophilidae Stephens, 1836
 Sericostomatidae Stephens, 1836
 Uenoidae Iwata, 1927

Order Lepidoptera (larvae)

Crambidae Latreille, 1810

Order Diptera (larvae & pupae)

Athericidae Stuckenberg, 1973
 Bibionidae Fleming, 1821
 Blephariceridae Loew, 1861
 Cecidomyiidae Newman, 1834
 Ceratopogonidae Newman, 1834
 Chaoboridae Edwards, 1920
 Chironomidae Newman, 1834
 Culicidae Stephens, 1829
 Cylindrotomidae Schiner, 1863
 Dixidae Schiner, 1868
 Dolichopodidae Latreille, 1809
 Empididae Latreille, 1804
 Ephydriidae Zetterstedt, 1837
 Fanniidae Schnabl, 1911
 Limoniidae Speiser, 1909
 Muscidae Latreille, 1802
 Pediciidae Osten-Sacken, 1860
 Psychodidae Newman, 1834
 Ptychopteridae Osten-Sacken, 1862
 Rhagionidae Latreille, 1802
 Scathophagidae Robineau-Desvoidy, 1830
 Scatopsidae Newman, 1834
 Sciomyzidae Fallén, 1820
 Simuliidae Newman, 1834
 Stratiomyiidae Latreille, 1804
 Syrphidae Latreille, 1802
 Tabanidae Latreille, 1802
 Thaumaleidae Bezzi, 1913
 Tipulidae Latreille, 1802
 Trichoceridae Kertesa, 1902

Key to Larvae from Central Europe

Ernst Bauernfeind
Wolfgang Lechthaler



Title: Ephemeroptera - Key to Larvae from Central Europe; DVD-Edition
Authors: Ernst Bauernfeind & Wolfgang Lechthaler (2023)

Copyright: 2023 by Wolfgang Lechthaler; Eutaxa; lechthaler@eutaxa.com; www.eutaxa.com

ISBN: 978-3-9501839-6-2; Made and printed in Austria

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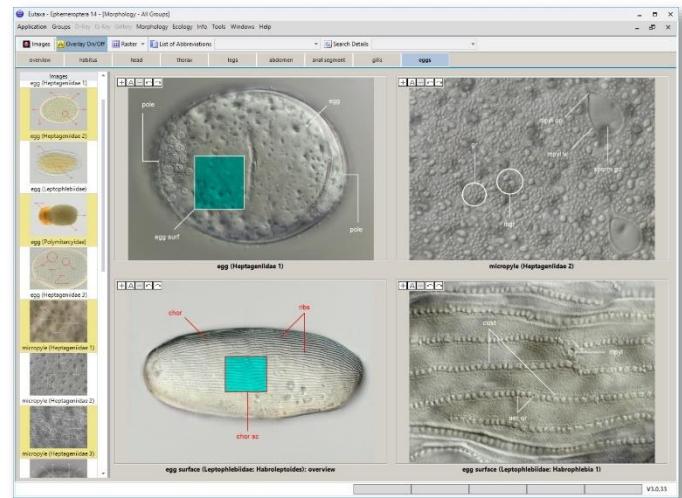
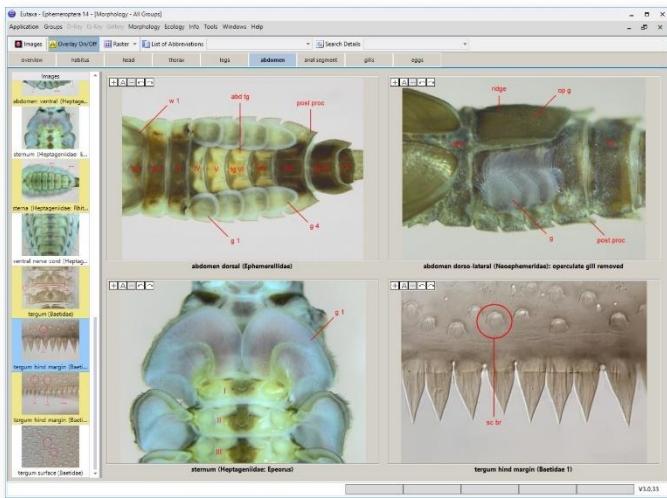
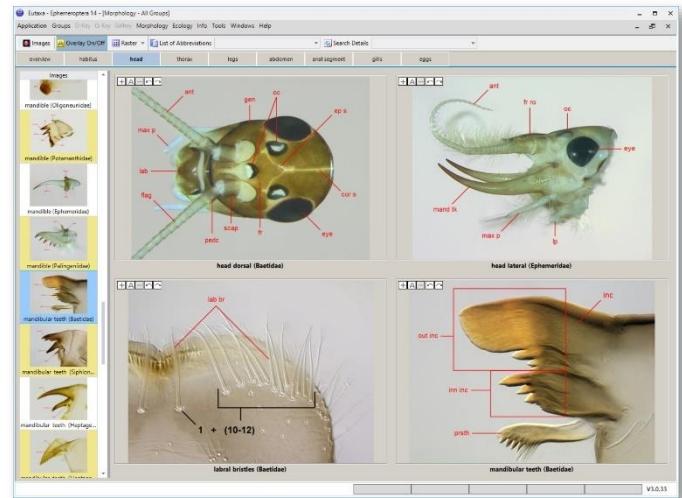
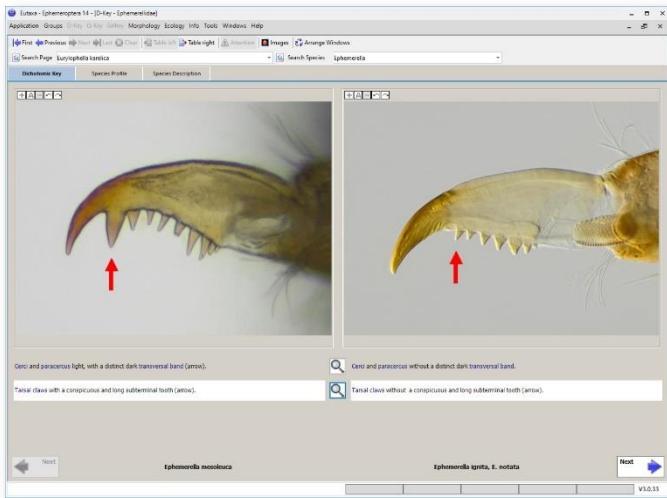
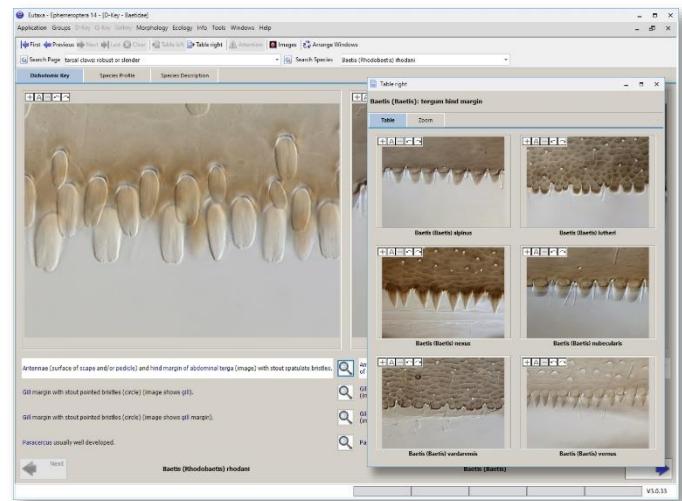
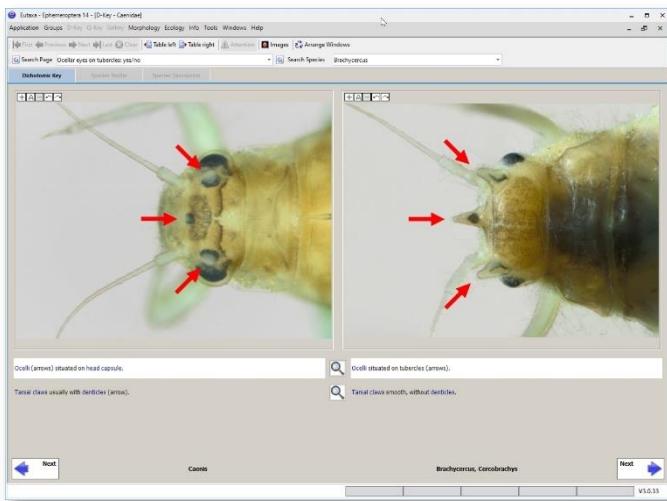
€ 550,00

This product offers a versatile application for the identification of last instar larvae of the order Ephemeroptera (Cl. Insecta). About 140 species of Central Europe are documented precisely and numerous illustrations of relevant morphological characters can be queried from an extensive picture database and compared with each other. A range of ecological and systematic dates shall enhance the knowledge of this invertebrate group, significant for the classification of standing or running waters.

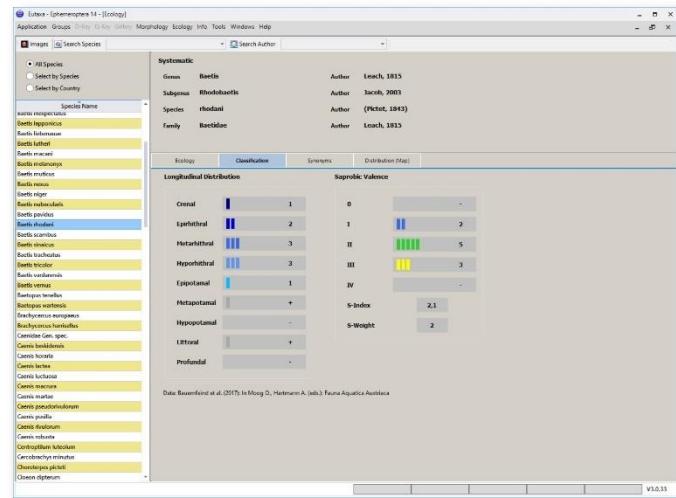
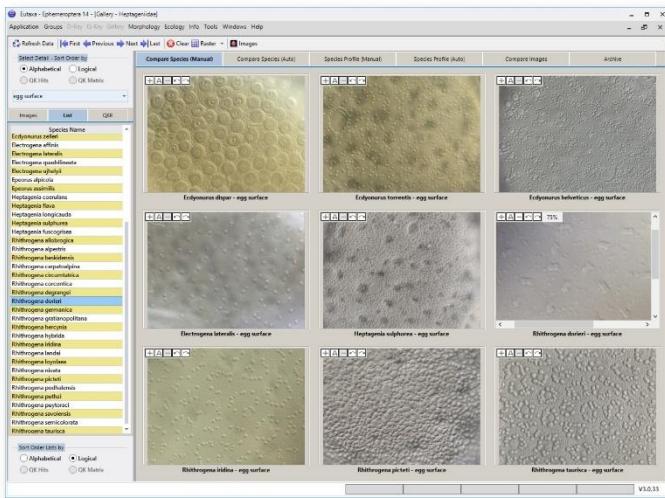
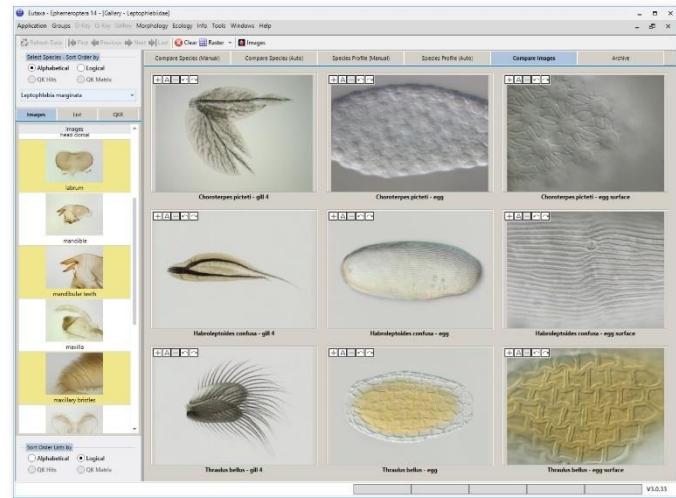
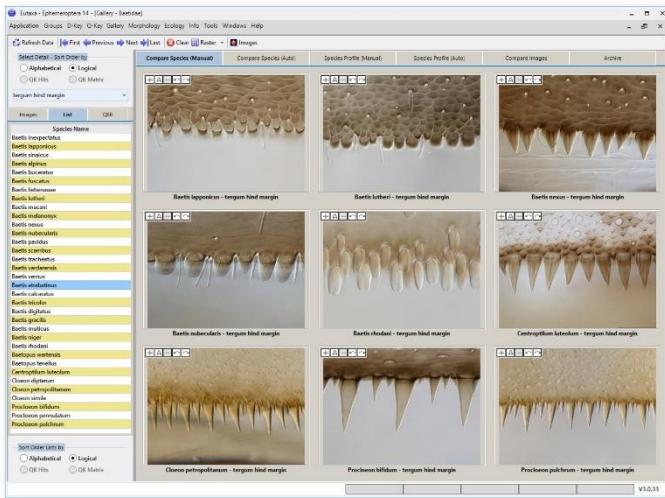
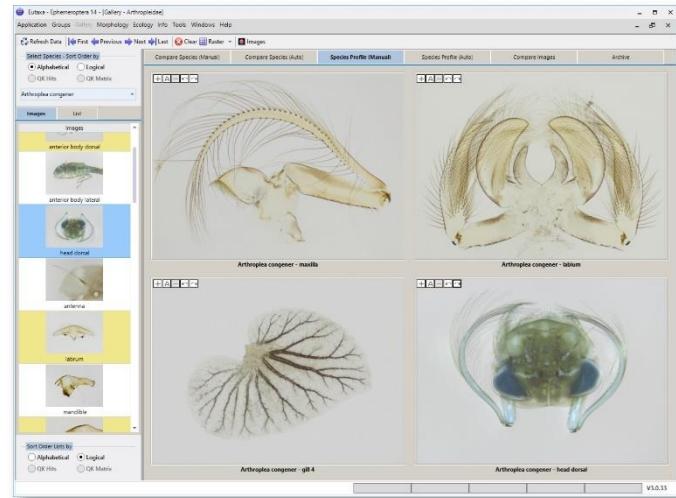
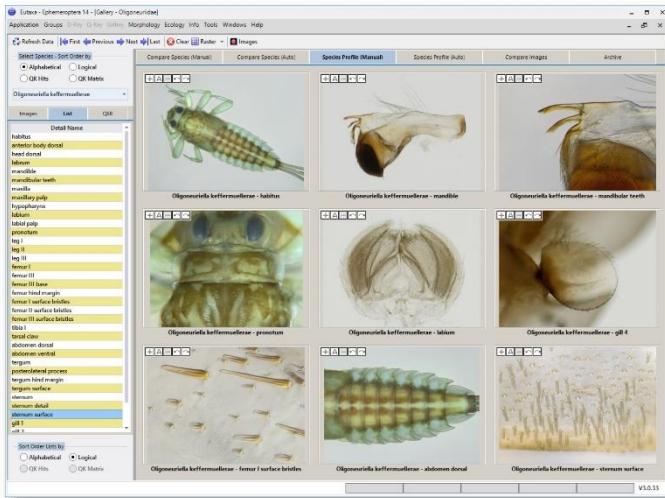
More information about this product, how to order, and a sample of images from the picture data base is given under the internet address www.eutaxa.com.

For questions, concerning this product, please send an E-Mail to lechthaler@eutaxa.com.

Software Images: D-Key, Morphology



Software Images: Gallery, Ecology



List of Species, covered by the Key

Family Ameletidae

Ameletus inopinatus Eaton, 1887
Metreletus balcanicus (Ulmer, 1920)

Family Ametropodidae

Ametropus fragilis Albarda, 1878

Family Arthropleidae

Arthroplea congener Bengtsson, 1908

Family Baetidae

Baetis (Acentrella) inexpectatus (Tshernova 1928)
Baetis (Acentrella) lapponicus (Bengtsson, 1912)
Baetis (Acentrella) sinaicus (Bogescu, 1931)
Baetis (Baetis) alpinus (Pictet, 1843)
Baetis (Baetis) buceratus Eaton, 1870
Baetis (Baetis) fuscatus (Linnaeus, 1761)
Baetis (Baetis) liebenauae Keffermüller, 1974
Baetis (Baetis) lutheri Müller-Liebenau, 1967
Baetis (Baetis) macani Kimmins, 1957
Baetis (Baetis) melanonyx (Pictet, 1843)
Baetis (Baetis) nexus Navás, 1918
Baetis (Baetis) nubecularis Eaton, 1898
Baetis (Baetis) pavidus Grandi, 1951
Baetis (Baetis) scambus Eaton, 1870
Baetis (Baetis) tracheatus Kefferm. & Machel 1967
Baetis (Baetis) vardarensis Ikonomov, 1962
Baetis (Baetis) vernus Curtis, 1834
Baetis (Labiobaetis) atrebatinus Eaton, 1870
Baetis (Labiobaetis) calcaratus Keffermüller, 1972
Baetis (Labiobaetis) tricolor Tshernova, 1928
Baetis (Nigrobaetis) digitatus Bengtsson, 1912
Baetis (Nigrobaetis) gracilis Bog. & Tabac., 1957
Baetis (Nigrobaetis) muticus (Linnaeus, 1758)
Baetis (Nigrobaetis) niger (Linnaeus, 1761)
Baetis (Rhodobaetis) rhodani (Pictet, 1843)
Baetopus (Baetopus) wartensis Kefferm., 1960
Baetopus (Raptobaetopus) tenellus (Alb., 1878)
Centroptilum luteolum (O.F. Müller, 1776)
Cloeon (Cloeon) dipterum (Linnaeus, 1761)
Cloeon (Intercl.) petropolitanum Kl. & Nov., 1992
Cloeon (Similicloeon) simile Eaton, 1870
Procloeon (Procloeon) bifidum (Bengtsson, 1912)
Procloeon (Pseudocentr.) pennulatum (Eat., 1870)
Procloeon (Pseudocentr.) pulchrum (Eaton, 1885)

Family Caenidae

Brachycercus europaeus Kluge, 1991
Brachycercus harrisellus Curtis, 1834
Caenis beskidensis Sowa, 1973
Caenis horaria (Linnaeus, 1758)
Caenis lactea (Burmeister, 1839)
Caenis luctuosa (Burmeister, 1839)
Caenis macrura Stephens, 1836
Caenis martae Belfiore, 1984

Caenis pseudorivulorum Keffermüller, 1960

Caenis pusilla Navás, 1913

Caenis rivulorum Eaton, 1884

Caenis robusta Eaton, 1884

Cercobrachys minutus (Tshernova, 1952)

Family Ephemerellidae

Ephemerella ignita (Poda, 1761)
Ephemerella mesoleuca (Brauer, 1857)
Ephemerella mucronata (Bengtsson, 1909)
Ephemerella notata Eaton, 1887
Eurylophella karelica (Tiensuu, 1935)
Torleya major (Klapálek, 1905)

Family Ephemeridae

Ephemera (Ephemera) danica O.F. Müller, 1764
Ephemera (Ephemera) lineata Eaton, 1870
Ephemera (Ephemera) vulgata Linnaeus, 1758
Ephemera (Sinephemera) glaucops Pictet, 1843

Family Heptageniidae

Ecdyonurus (Ecd.) aurantiacus (Burmeister, 1839)
Ecdyonurus (Ecd.) dispar (Curtis, 1834)
Ecdyonurus (Ecd.) insignis (Eaton, 1870)
Ecdyonurus (Ecd.) macani Thomas & Sowa, 1970
Ecdyonurus (Ecd.) ruffii Grandi, 1953
Ecdyonurus (Ecd.) starmachi Sowa, 1971
Ecdyonurus (Ecd.) submontanus Landa, 1969
Ecdyonurus (Ecd.) torrentis Kimmins, 1942
Ecdyonurus (Ecd.) venosus (Fabricius, 1775)
Ecdyonurus (Helv.) alpinus H., Tom. & Zur., 1987
Ecdyonurus (Helv.) austriacus Kimmins, 1958
Ecdyonurus (Helv.) helveticus Eaton, 1883
Ecdyonurus (Helv.) parahelveticus H. T. & Z. 1986
Ecdyonurus (Helv.) picteti (Meyer-Dür, 1864)
Ecdyonurus (Helv.) siveci Jacob & Braasch, 1984
Ecdyonurus (Helv.) subalpinus Klapálek, 1907
Ecdyonurus (Helv.) zelleri Eaton, 1885
Electrogena affinis (Eaton, 1887)
Electrogena lateralis (Curtis, 1834)
Electrogena quadrilineata (Landa, 1969)
Electrogena ujhelyii (Sowa, 1981)
Epeorus (Epeorus) assimilis Eaton, 1885
Epeorus (Ironopsis) alpicola (Eaton, 1871)
Heptagenia (Dacnogenia) coerulans Rostock, 1878
Heptagenia (Heptg.) flava Rostock, 1878
Heptagenia (Heptg.) longicauda (Stephens, 1836)
Heptagenia (Heptg.) sulphurea (O.F. Müller, 1776)
Heptagenia (Kageronia) fuscogrisea (Retz., 1783)
Rhithrogena allobrogica Sowa & Degrange, 1987
Rhithrogena alpestris Eaton, 1885
Rhithrogena beskidensis Alba-Terc. & Sowa, 1987
Rhithrogena carpatoalpina Kl., Ol., Sa. & W., 1987
Rhithrogena circumtatraica Sowa & Soldán, 1986
Rhithrogena corcontica Sowa & Soldán, 1986

Rhithrogena degrangei Sowa, 1969
Rhithrogena dorieri Sowa, 1971
Rhithrogena germanica Eaton, 1885
Rhithrogena gratianopolitana Sowa, D. & S., 1986
Rhithrogena grischuna Sartori & Oswald, 1988
Rhithrogena hercynia Landa, 1969
Rhithrogena hybrida Eaton, 1885
Rhithrogena iridina (Kolenati, 1859)
Rhithrogena landai Sowa & Soldán, 1984
Rhithrogena loyolaea Navás, 1922
Rhithrogena nivata Eaton, 1871
Rhithrogena picteti Sowa, 1971
Rhithrogena podhalensis Sowa & Soldán, 1986
Rhithrogena puthzi Sowa, 1984
Rhithrogena puytoraci Sowa & Degrane, 1987
Rhithrogena savoiensis Alba-Terc. & Sowa, 1987
Rhithrogena semicolorata (Curtis, 1834)
Rhithrogena taurisca Bauernfeind, 1992

Family Isonychiidae

Isonychia ignota (Walker, 1853)

Family Leptophlebiidae

Choroterpes (*Choroterpes*) *picteti* (Eaton, 1871)
Habroleptoides auberti (Biancheri, 1954)
Habroleptoides confusa Sartori & Jacob, 1986
Habrophlebia eldae Jacob & Sartori, 1984
Habrophlebia fusca (Curtis, 1834)
Habrophlebia lauta Eaton, 1884
Leptophlebia marginata (Linné, 1767)
Leptophlebia vespertina (Linnaeus, 1758)

Paraleptophlebia cincta (Retzius, 1783)
Paraleptophlebia submarginata (Stephens, 1836)
Paraleptophlebia wernerii Ulmer, 1920
Thraulus bellus Eaton, 1881

Family Neoephemeridae

Neoephemera maxima (Joly, 1870)

Family Oligoneuriidae

Oligoneuriella keffermuellerae Sowa, 1973
Oligoneuriella pallida (Hagen 1855)
Oligoneuriella rhenana (Imhoff, 1852)

Family Palingeniidae

Palingenia longicauda (Olivier, 1791)

Family Polymitarcyidae

Ephoron virgo (Olivier, 1791)

Family Potamanthidae

Potamanthus luteus (Linné, 1767)

Family Prosopistomatidae

Prosopistoma pennigerum (O.F. Müller, 1785)

Family Siphlonuridae

Siphlonurus (*Siphlonurus*) *aestivalis* Eaton, 1903
Siphlonurus (*Siphlonurus*) *armatus* Eaton, 1870
Siphlonurus (*Siphlonurus*) *croaticus* Ulmer, 1920
Siphlonurus (*Siphlonurus*) *lacustris* Eaton, 1870
Siphlonurus (*Siphlonurus*) *alternatus* (Say, 1824)

Key to Larval, Juvenile and Adult Stages of Freshwater Fishes from Central Europe

Wolfgang Lechthaler & Wolfgang Hauer

2023



Title: Pisces - Key to Larval, Juvenile and Adult Stages of Freshwater Fishes from Central Europe; DVD-Edition
Authors: Wolfgang Lechthaler & Wolfgang Hauer

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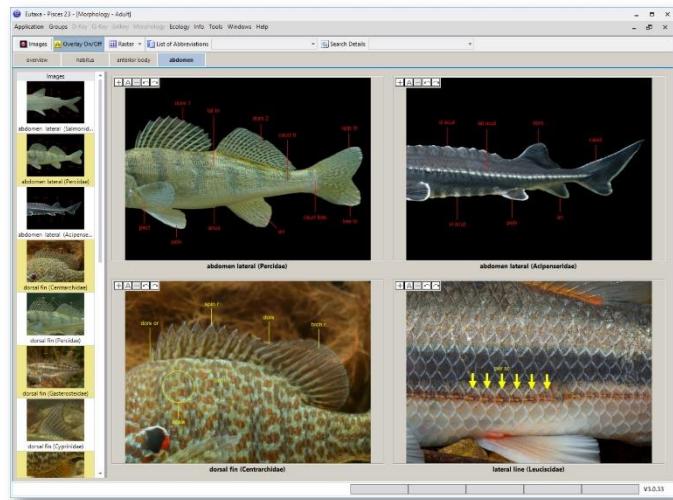
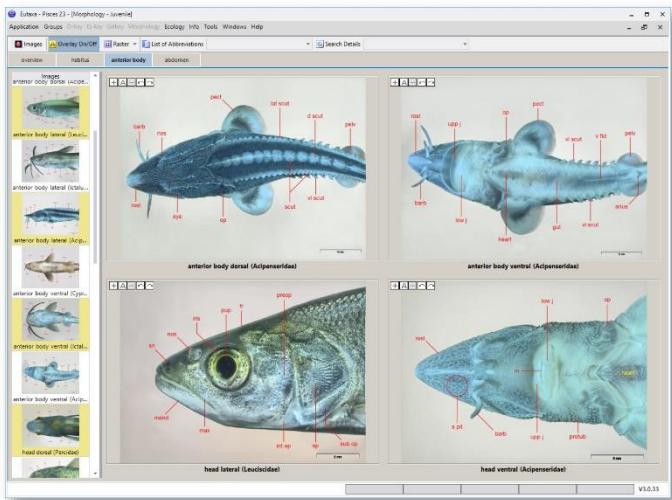
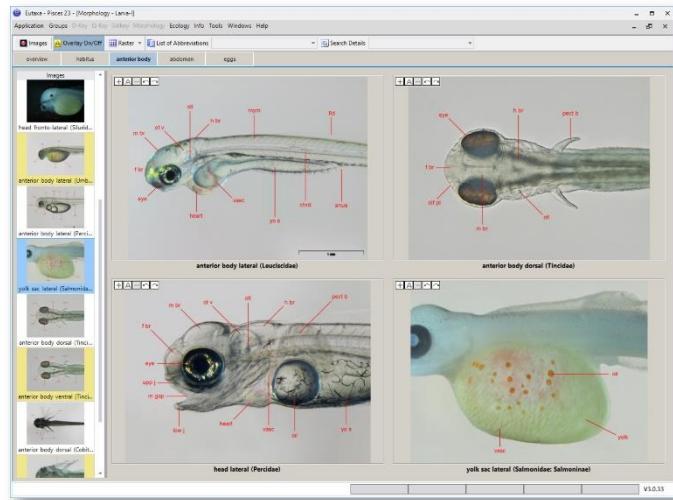
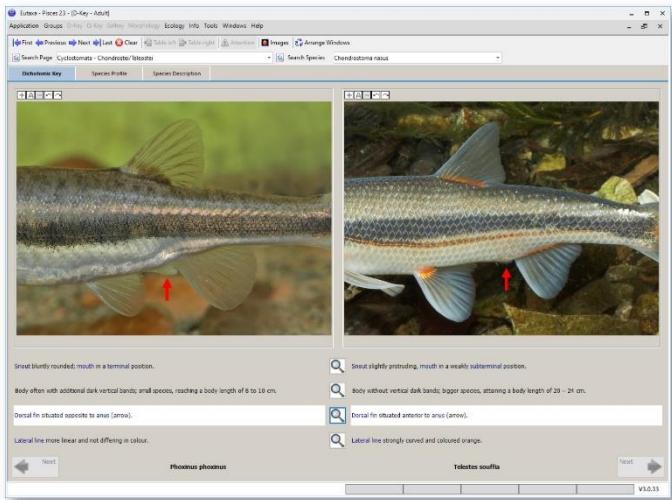
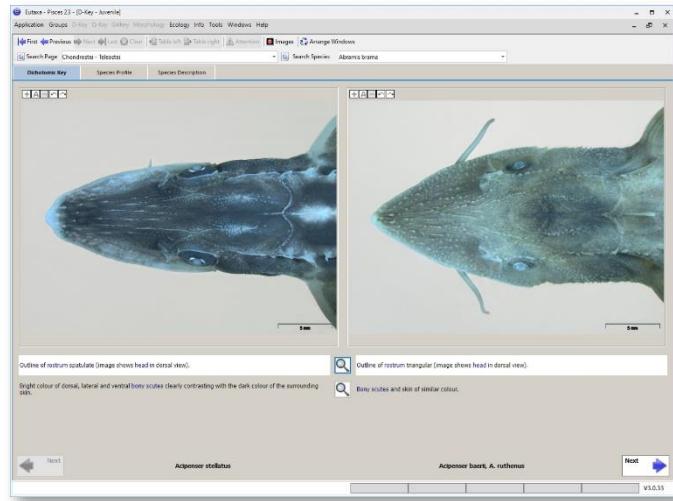
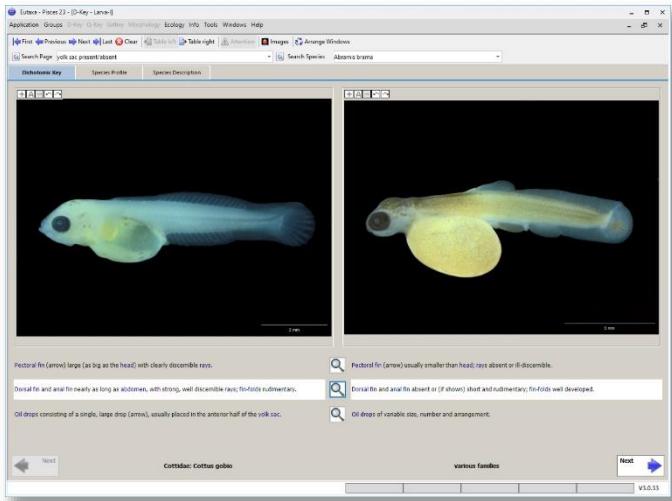
€ 780,00

This product offers a versatile application for the identification of five larval stages (free embryos (I), young (II), intermediate (III) and older (IV) larvae, young juveniles (V)), one juvenile and one adult stage of freshwater fishes (Chondrostei, Teleostei) from Central Europe. About 90 species are documented precisely and several thousand illustrations of relevant morphological characters can be queried from an extensive picture database and compared with each other. A range of ecological and systematic dates shall enhance the knowledge of this vertebrate group, significant for the classification of standing or running waters.

More information about this product, how to order, and a sample of images from the picture data base is given under the internet address www.eutaxa.com.

For questions, concerning this product, please send an E-Mail to lechthaler@eutaxa.com.

Software Images: D-Key, Morphology



Software Images: Gallery, Query Key

The screenshot shows the iNaturalist application interface for the Horned sturgeon (Horned sturgeon). The main window displays the 'Species Profile (Manual)' tab. On the left, a sidebar lists various body parts with corresponding thumbnail images: 'Images' (selected), 'Head', 'Lateral', 'Dorsal', 'Ventral', 'Caudal', 'Anal', 'Pectoral', 'Dorsal fin', 'Anal fin', 'Caudal fin', and 'Ventral fin'. The main content area contains nine detailed images of the fish from different perspectives: 'Horned sturgeon - habitus lateral DF', 'Horned sturgeon - habitus dorsal', 'Horned sturgeon - anterior body dorsal', 'Horned sturgeon - anterior body ventral', 'Horned sturgeon - head dorsal', 'Horned sturgeon - head ventral', 'Horned sturgeon - abdomen lateral DF', 'Horned sturgeon - dorsal fin', and 'Horned sturgeon - caudal fin'. The bottom navigation bar includes buttons for 'Search', 'Checklist', 'Upload', 'Logout', and 'Help'.

The screenshot shows the Eutech Fiscon 23 software interface. At the top, there's a menu bar with 'Eutech - Fiscon 23' and various tabs like 'Ecology', 'Info', 'Tools', 'Windows', and 'Help'. Below the menu is a toolbar with icons for 'Refresh Data', 'Print', 'Previous', 'Next', 'Clear', 'Search', and 'Help'. A search bar is present above a main content area. The left side features a sidebar titled 'Select Details - Sort Order By' with options for 'Alphabetical' (selected), 'Logarithm', and 'Ok Metric'. It also includes a 'head lateral' button and a 'Images' section containing five thumbnail images of fish species: *S. blainvillii*, *S. fontinalis*, *S. nemoyi*, *S. umbra*, and *C. gobio*. Below these thumbnails is a 'Sort Order Left By' dropdown with the same three options as the sidebar. The main content area displays four large images of fish heads in lateral view. From top-left to bottom-right, they are labeled: *Lota lota* A - head lateral, *Gymnogobius cernuus* A - head lateral, *Cottus gobio* A - head lateral, and *Romanzewia gracilis* A - head lateral. Each image has its own set of zoom and crop controls.

Eutricha - Faces 23 - [Query - Key] - [Alt+F]

Application Groups Help To My Library Mousercise Ecology Info Tools Windows Help

Search Query Refresh Results Images

Head Body Flab Ecology Hips Neck

Adipose fin

- present
- absent

Caudal fin shape

- rounded; convex
- truncate; emarginate
- falcate
- proterosoma; tongue-shaped

Dorsal fin position relative to pectoral ray

- first dorsal ray meeting anterior to first pectoral ray
- first dorsal ray meeting above the first pectoral ray
- first dorsal ray meeting posterior to first pectoral ray
- first dorsal ray meeting posterior to first pectoral ray and anterior to first anal ray
- first dorsal ray meeting posterior to first pectoral ray and posterior to first anal ray
- first dorsal ray meeting right or almost right above first anal ray
- first dorsal ray meeting posterior to first anal ray

Dorsal fin shape

- short, consisting of soft rays
- long, consisting of soft rays
- long and rigidly constructed, consisting of anterior spinous and posterior soft rays
- long and divided, consisting of two clearly separated fins; anterior fin with spinous or

Pelvic fins

- pelvic fins fused to a single ventral fin
- pelvic fins absent
- pelvic fins separated and borne low
- pelvic fins separated, with branch rays

Anal fin margin

- entire
- straight or not clearly discernible
- concave

Dorsal fin - anal fin length ratio

- dorsal and anal fin subequal in length
- dorsal fin no more than twice the length of anal fin
- dorsal fin more than twice the length of anal fin
- anal fin no more than twice the length of dorsal fin
- anal fin more than twice the length of dorsal fin

Dorsal fin position of base

- short fin, when anterior to anal
- short fin, long distance anterior to anal
- long fin, long distance anterior to anal
- short fin, close to anal
- long fin, above anal
- posterior to anal

Dorsal fin spots

- prominent black spot present
- black spot absent

Ventral fin patterns

- anterodorsal dark or silvery
- mottled
- solid
- anterior margin white
- anterior margin white and black
- different

Software Images: Gallery – Stages

Eutaxa - Pisces 23 - [Gallery - Table I-V]

Application Groups Gallery Ecology Info Tools Windows Help

Refresh Data | First Previous Next Last | Clear Raster | Images

Select Detail - Sort Order by: Alphabetical Logical
 OK Hits OK Matrix

habitats lateral I-V

Images List

Seleneus namaycush
Seleneus umbra
Seleneus latus
Coregonus lavaretus

Sort Order Lists by: Alphabetical Logical
 OK Hits OK Matrix

Compare Species (Manual) Compare Species (Auto) Species Profile (Manual) Species Profile (Auto) Compare Images Archive

Eutaxa - Pisces 23 - [Gallery - Table I-Juvenile]

Application Groups Gallery Ecology Info Tools Windows Help

Refresh Data | First Previous Next Last | Clear Raster | Images

Select Detail - Sort Order by: Alphabetical Logical
 OK Hits OK Matrix

habitats lateral I-Juvenile

Images List

Barbus barbus
Carassius carassius
Carassius gibelio

Compare Species (Manual) Compare Species (Auto) Species Profile (Manual) Species Profile (Auto) Compare Images Archive

Eutaxa - Pisces 23 - [Gallery - Table I-Adult]

Application Groups Gallery Ecology Info Tools Windows Help

Refresh Data | First Previous Next Last | Clear Raster | Images

Select Detail - Sort Order by: Alphabetical Logical
 OK Hits OK Matrix

habitats lateral I-Adult

Species Name

Abramis brama
Acipenser baerii
Acipenser gueldenstaedtii
Acipenserstellatus
Acipenserstellatus
Alburnus bipunctatus
Alburnus alburnus
Alburnusmento
Anguilla anguilla
Bekk gymnotrichelus
Barbusbarbus
Barbusbarbus
Carassiuscarassius
Carassiusgibelio
Chondrostomaaressa
Coregonuslavaretus
Cottusgobio
Cyprinuscarpio
Dace
Gasterosteusaculeatus
Gobiusgobio
Gymnophthalmuscerurus
Huchohucho
Huso
Leptobarbushanakii
Leptobarbushanakii
Leuciscusleuciscus
Lota lota
Mugilargenteusmelanostomus
Oncorhynchusmykiss
Percafluviatilis
Phoxinusphoxinus
Proterorhinussemipinnatus
Pseudobarbusparvus
Pungitiuspungitius
Rhodeusamarus
Romancangobiusvladykovii
Rutilusfriderici
Rutilusrutilus
Salmo trutta f. fario
Salmo trutta f. lacustris

Sort Order Lists by: Alphabetical Logical
 OK Hits OK Matrix

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V3.0.33

List of Species, covered by the Key

Subclass Chondrostei

Family Acipenseridae

- Acipenser baerii* Brandt, 1869
Acipenser gueldenstaedtii Brandt & Ratzeb., 1833
Acipenser nudiventris Lovetzký, 1828
Acipenser oxyrinchus Mitchell, 1815
Acipenser ruthenus Linnaeus, 1758
Acipenser stellatus Pallas, 1771
Huso huso Linnaeus, 1758

Subclass Teleostei

Family Acheilognathidae

- Rhodeus amarus* (Bloch, 1782)

Family Anguillidae

- Anguilla anguilla* Linnaeus, 1758

Family Bagridae

- Tachysurus fulvidraco* (Richardson, 1846)

Family Centrarchidae

- Lepomis gibbosus* (Linnaeus, 1758)
Micropterus salmoides (Lacépède, 1802)

Family Cobitidae

- Cobitis elongatoides* Băcescu & Mayer, 1969
Cobitis taenia Linnaeus, 1758
Misgurnus fossilis (Linnaeus, 1758)
Misgurnus anguillicaudatus (Cantor, 1842)
Sabanejewia balcanica (S. L. Karaman, 1922)

Family Cottidae

- Cottus gobio* Linnaeus, 1758

Family Cyprinidae

- Barbus balcanicus* Kotlík et al., 2002
Barbus barbus (Linnaeus, 1758)
Carassius carassius (Linnaeus, 1758)
Carassius gibelio (Bloch, 1782)
Cyprinus carpio Linnaeus, 1758

Family Esocidae

- Esox lucius* Linnaeus, 1758

Family Gasterosteidae

- Gasterosteus aculeatus* Linnaeus, 1758
Pungitius pungitius (Linnaeus, 1758)

Family Gobiidae

- Babka gymnotrachelus* (Kessler, 1857)
Neogobius fluviatilis (Pallas, 1814)
Neogobius melanostomus (Pallas, 1814)
Ponticola kessleri (Günther, 1861)
Proterorhinus semilunaris (Heckel, 1837)

Family Gobionidae

- Gobio gobio* (Linnaeus, 1758)
Gobio obtusirostris Valenciennes, 1842
Pseudorasbora parva (Temminck & Schleg., 1846)
Romanogobio carpathorossicus (Vladykov, 1925)
Romanogobio skywalkeri Friedrich et al., 2018
Romanogobio uranoscopus (Agassiz, 1828)
Romanogobio vladykovi (Fang, 1943)

Family Ictaluridae

- Ameiurus melas* (Rafinesque, 1820)
Ameiurus nebulosus (Lesueur, 1819)

Family Leuciscidae

- Abramis brama* (Linnaeus, 1758)
Alburnoides bipunctatus (Bloch, 1782)
Alburnus alburnus (Linnaeus, 1758)
Alburnus mento (Heckel, 1837)
Aspius aspius (Linnaeus, 1758)
Ballerus ballerus (Linnaeus, 1758)
Ballerus sapa (Pallas, 1814)
Blicca bjoerkna (Linnaeus, 1758)
Chondrostoma nasus (Linnaeus, 1758)
Leucaspis delineatus (Linnaeus, 1758)
Leuciscus idus (Linnaeus, 1758)
Leuciscus leuciscus (Linnaeus, 1758)
Pelecus cultratus (Linnaeus, 1758)
Phoxinus phoxinus (Linnaeus, 1758)
Rutilus meidingeri (Heckel, 1851)
Rutilus pigus (Lacépède, 1803)
Rutilus rutilus (Linnaeus, 1758)
Scardinius erythrophthalmus (Linnaeus, 1758)
Squalius cephalus (Linnaeus, 1758)
Telestes souffia (Risso, 1826)
Vimba vimba (Linnaeus, 1758)

Family Lotidae

- Lota lota* (Linnaeus, 1758)

Family Nemacheilidae

- Barbatula barbatula* (Linnaeus, 1758)

Family Odontobutidae

- Perccottus glenii* Dybowski, 1877

Family Percidae

Gymnocephalus baloni Holčík & Hensel, 1974
Gymnocephalus cernua (Linnaeus, 1758)
Gymnocephalus schraetser (Linnaeus, 1758)
Perca fluviatilis Linnaeus, 1758
Sander lucioperca (Linnaeus, 1758)
Sander volgensis (Gmelin, 1789)
Zingel streber (Siebold, 1863)
Zingel zingel (Linnaeus, 1758)

Family Poeciliidae

Gambusia affinis (Baird & Girard, 1853)
Gambusia holbrooki Girard, 1859
Poecilia reticulata Peters, 1859

Family Salmonidae

Coregonus lavaretus Linnaeus, 1758
Hucho hucho (Linnaeus, 1758)
Oncorhynchus mykiss (Walbaum, 1792)
Salmo trutta f. fario Linnaeus, 1758
Salmo trutta f. lacustris Linnaeus, 1758
Salmo trutta x Salvelinus fontinalis
Salvelinus alpinus (Linnaeus, 1758)
Salvelinus fontinalis (Mitchill, 1814)
Salvelinus fontinalis x S. umbla
Salvelinus namaycush (Walbaum, 1792)
Salvelinus umbla (Linnaeus, 1758)
Thymallus thymallus (Linnaeus, 1758)

Family Siluridae

Silurus glanis Linnaeus, 1758

Family Umbridae

Umbra krameri Walbaum, 1792
Umbra pygmaea (DeKay, 1842)

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Macrozoobenthos Families 23	550 €	385 €	275 €	140 €
Ephemeroptera 23	550 €	385 €	275 €	140 €
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