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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)

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## Culicidae 23 - Product Information

### Title

Lechthaler W. (2023): Culicidae – Key to Larvae, Pupae and Males from Central and Western Europe.

### Author

Lechthaler Wolfgang

### ISBN

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### Price

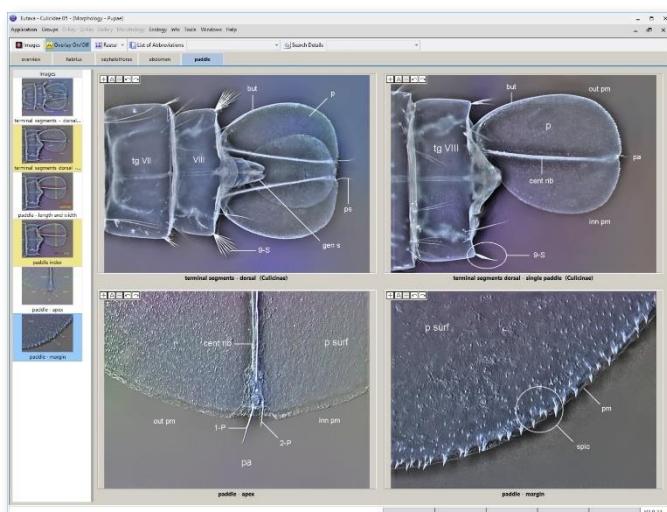
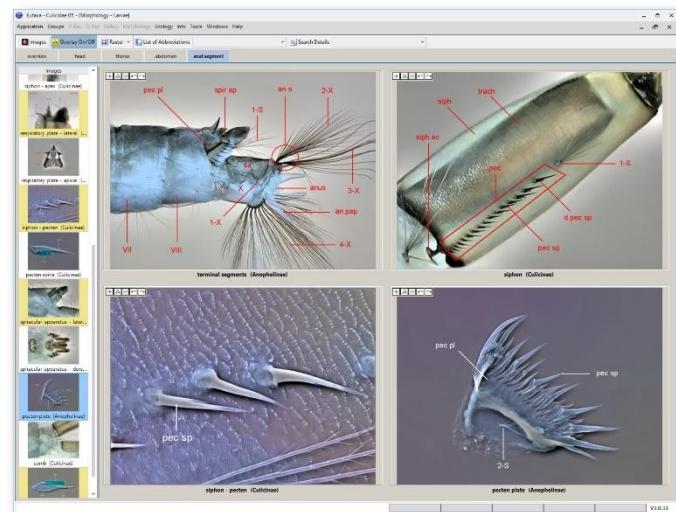
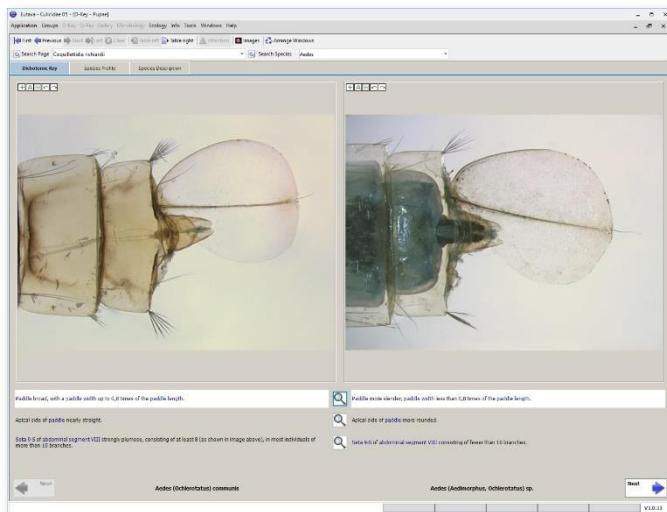
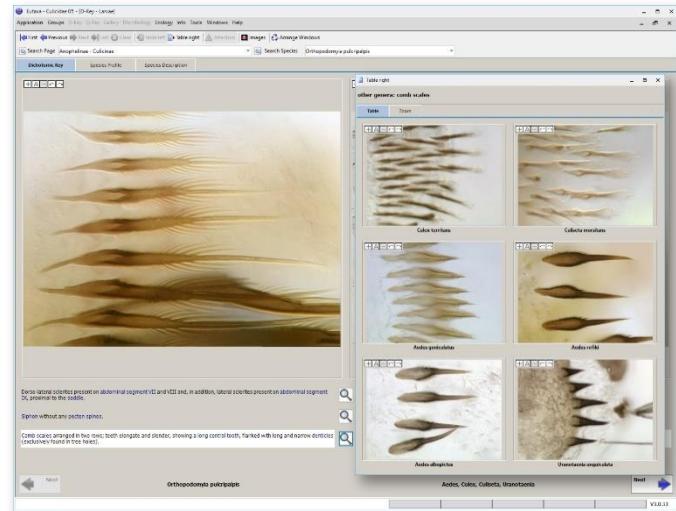
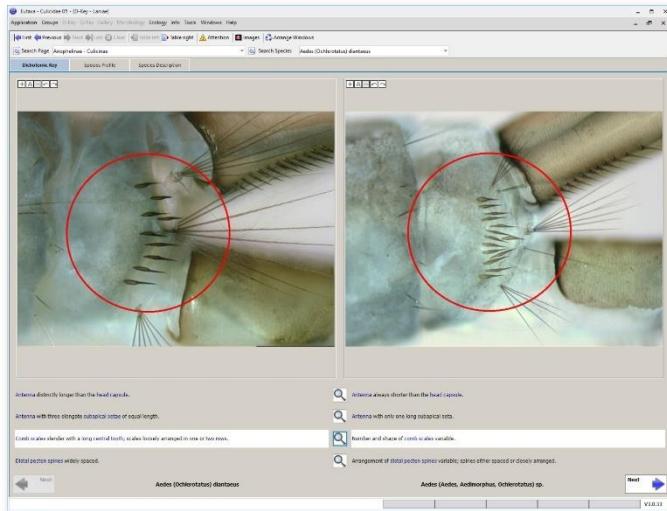
€ 450,00

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](http://www.eutaxa.com)

For questions, concerning this product, please send an E-Mail to [lechthaler@eutaxa.com](mailto:lechthaler@eutaxa.com)

## Software Images: D-Key, Morphology



## Software Images: Gallery, Query Key, Ecology

The screenshot shows the iNaturalist Collection software interface. On the left, there's a sidebar with a tree icon, a magnifying glass icon, and several specimen cards. The cards are yellow with black text and show images of fly legs. From top to bottom, they are labeled: 'Andes bicolorata', 'Andes bicolorata', 'Andes bicolorata', 'Andes bicolorata', 'Andes pulchra', 'Andes pulchra', 'Andes pulchra', and 'Andes varipes'. At the bottom of the sidebar, there are three radio button options: 'Aphelinidae' (selected), 'Logical', 'OR taxa', and 'OR Matrix'. The main area contains four large, detailed images of fly specimens. The top-left image is a brown fly labeled 'Capitellida (Capitellid richardi) - terminal segments F2'. The top-right image is a blue fly labeled 'Asaphites (Asaphites) dodger - terminal segments F2'. The bottom-left image is a tan fly labeled 'Andes (Olibrusotus) communis - terminal segments F2'. The bottom-right image is a green fly labeled 'Andes (Streptopus) albipennis - terminal segments F2'. Each image has a zoom-in icon in the top-left corner.

The figure shows a screenshot of the Ecological Distribution Model (EDM) software interface. The top menu bar includes Application, Groups, Tools, Options, Workshop, Ecology, Web, Tools, Minimum, Help, and a search bar labeled "Search Author". Below the menu is a toolbar with icons for Single Map, Ratio, and Legend. On the left, a sidebar titled "Species Name" lists numerous species names, many of which are highlighted in yellow. The main area displays four maps of Europe, each representing a different species or group. The maps are arranged in a 2x2 grid:

- Top Left:** *Aedes vexans*
- Top Right:** *Aedes (A.) vexans*
- Bottom Left:** *Anopheles labrådei*
- Bottom Right:** *Anopheles pharoensis*

The maps use a grayscale gradient to represent environmental suitability, with yellow indicating high suitability.

## 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 (Culiseta) 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