

Review

Remaudière, G. & Remaudière, M. 1997: Catalogue des Aphididae du Monde – Catalogue of the World's Aphididae. Homoptera Aphidoidea. — INRA Editions, Paris. 473 pp. ISBN 2-7380-0714-7.

Since the publication of the Survey of the World's Aphids (V. F. Eastop & D. Hille ris Lambers 1976), customarily called 'Survey', more than 700 new aphid taxa have been described, synonyms produced, nomenclatural changes established and various improvements proposed. Therefore, the need for a new index has been marked, especially as the 'Survey' has been out of print for some years. The authors have had a huge task in gathering the wealth of original information published since the release of the 'Survey'. With 50 years' experience, first at the Service de Parasitologie Végétale de l'Institut Pasteur and now in the Laboratoire d'Entomologie, Muséum national d'Histoire naturelle, Paris, the senior author has acquired a world-wide familiarity with the aphid taxonomy. The cited literature includes 1 275 references published after Smith (Bibliography of the Aphididae of the World 1972), selected to refer to such publications and papers which include descriptions of taxons or morphs, new data of life cycle or host plants, the extension of geographical ranges, and fauna and regional catalogues and papers which deal with cycles, evolution, and the phylogeny of the Aphidoidea.

Instructions for the readers are both in French and English. The classification retained in the catalogue is based on that developed by Remaudière and his colleagues Stroyan and Quednau (1984, 1988 and 1994). The family Aphididae is divided here into 20 independent subfamilies which are presented in alphabetical order. The species are indexed in alphabetical order separately for each subfamily/tribe. The catalogue includes altogether 4 702 species/subspecies and 599 genera/subgenera with 2 638 synonymized taxa. The use of different combinations of upper and lower case, italics, and bold- and lightface type, makes the finding of different categories, valid names, synonyms, nomina dubia or nuda fast and practical for the reader, because each category has its own typographic layout both in the catalogue and in the comments, and in the index sections as well.

Synonyms and successful new combinations are presented according to the 'Survey'. The following are exam-

ples of some European species: *Glyphina schrankiana* Börner, 1950 is a junior synonym of *G. jakutensis* Mordvilko, 1931; species of *Schizoneura* belong to *Eriosoma*; *Schizaphis arrhenatheri* Pettersson, 1971 is a junior synonym of *Sch. phlei* Orlob, 1961; *Bursaphis* McVikar Baker, 1934 is a newly accepted subgenus of the largest genus *Aphis*, with 558 valid species from which 486 are in *Aphis* s.str. and 72 in the other subgenera of *Aphis*; *Bursaphis* includes species which have several setae on the ultimate rostral segment, eg. the orchard pests *A. grossulariae* and *schneideri*; in another large genus, *Macrosiphoniella* (122 spp. in 7 subgen.), *Phalangomyzus* is separated as a subgenus; *Fimbriaphis* Richards, 1959 is a junior synonym of *Ericaphis* Börner, 1939; *Hyadaphis sphondylii* belongs to the genus *Semiaphis*. This species is closely related to *S. nolitangere*; *Hyadaphis foeniculi* Pass. and *H. passerinii* del Gu. are independent species.

Special attention should be given to the chapter Comments. This includes 87 previously unpublished data on new combinations, synonyms and statements presented by the senior author. For example, *Aphis avicularis* HRL, 1931 is according to comparative studies a junior synonym of *A. polygonata* Nevsky, 1929; and *Mamontova* Shaposhnikov, 1964 is a junior synonym of *Nearctaphis* Shaposhnikov, 1950.

The new catalogue can be used for years to come as an indispensable source of information dealing with valid aphid names and recent references. It is highly recommended to aphidologists, museums, and institutes concerned with biology, agronomy, plant protection, and with vectors of plant viruses of cultivated host plants.

Catalogue des Aphididae du monde – The Catalogue of the World's Aphididae can be ordered from: INRA editions, Route de St Cyr, 78026 Versailles Cedex, Paris, France. Fax: 01.30.83.34.49. Internet: <http://www.inra.fr>

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