

Curriculum vitae **Klaas-Douwe 'KD' B. Dijkstra** (7 January 1975, Kampen, The Netherlands)

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History and diversity of dragonflies and damselflies – My passion for natural history began when I was nine, living in Egypt. After obtaining an MSc at Leiden University in 1998 (*cum laude*), I worked on African and European Odonata at the Netherlands Centre for Biodiversity Naturalis (was National Museum of Natural History). I obtained a PhD at Leiden University with accumulated work on the taxonomy and biogeography of African Odonata, publishing over forty papers, and shared the Worldwide Dragonfly Association outstanding achievement award. Systematic, phylogenetic, evolutionary, biogeographic and ecological research continues, especially on Zygoptera with DAWN (Damselfly Workers Naturalis).

Conservation and consultancy – The most conspicuous freshwater insects, Odonata represent both a vital human resource and the largest class of animal diversity, responding to change above and below the water surface. I largely revised the taxonomy of the African Odonata and, as member of the IUCN Dragonfly Specialist Group, contributed to the Freshwater Biodiversity Assessment of Africa, resulting in Red List assessments for all 700 species. Odonata are applied increasingly in environmental impact assessments, especially where aquatic systems are vulnerable, e.g. by mining and damming. I undertook fieldwork in sixteen African countries, including for Conservation International's RAP program, the Congo 2010 initiative and consultancies for (e.g.) the Millennium Challenge Corporation and ArcelorMittal.

Collections and education – My activities have given NCB Naturalis the foremost recent collection of African Odonata and lead to the review of important historical collections (Tervuren, Bulawayo, Nairobi). The expertise gained in odonate ecology, evolution, taxonomy and conservation lead to invitations for teaching and research at universities in Europe, Africa and Asia. I was curator of invertebrates at the University of Suriname (NZCS), initiating collaboration with NCB Naturalis: supported by the Dutch Foreign Ministry, our Suriname collections will be disclosed in databases and books.

Dragonfly books – The fieldguide to European Odonata (with Richard Lewington) appeared in English, French and Dutch, with 20,000 copies sold since 2006. A handbook (with Viola Clausnitzer) for nearly 500 species occurring from Sudan through eastern DRC to Mozambique is to appear in 2011. I was also co-editor and co-author of the handbook of Dutch Odonata.

Societies and journals – I co-founded the Dutch society for odonatology (NVL) and its journal *Brachytron* in 1997. I am subject editor for two ISI-listed journals: taxonomy for the *International Journal of Odonatology* and Odonata for *Zootaxa* (will start 2010).

Education

1986-1988 British International School Cairo, Egypt
1988-1990 Rijnlands Lyceum Oegstgeest, The Netherlands
1990-1992 Veenlanden College Mijdrecht, The Netherlands
1992-1998 Biology, Leiden University, The Netherlands

Degrees MSc (March 1998, *cum laude*). Evolutionary biology, biogeography and systematics.
 PhD (May 2007). Systematics and biogeography of Afrotropical Odonata.

MSc courses All subjects of general biology, including zoology, general and tropical botany, geology, palaeontology, systematics, biogeography, phylogenetic systematics, evolutionary biology, animal and plant ecology, ethology, mathematics, statistics and environmental biology.

Special courses:

1995 Botany and vegetation. Algarve, Portugal. Prof. D. Mabberley, Oxford University.
1995 Tropical ecology. Naivasha, Kenya. Tropical Biology Association.
1997 Phylogenetic systematics. Research school Biodiversity, Leiden University.
2009 Advanced phylogenetic analysis. Research school Biodiversity, Leiden University.

MSc research, Leiden University:

- 1994-1995 Identification key for European Drosophilidae (Diptera). Dr. J. van Alphen, Animal Ecology.
- 1995-1996 Competition for resources in fruit-feeding butterflies (Lepidoptera: Nymphalidae). Conducted in Kibale Forest, Uganda. Prof. P. Brakefield, Evolutionary Biology.
- 1997-1998 Phylogeny and biogeography of Philippine and Greater Sunda *Coeliccia* species (Odonata: Platycnemididae). D. Gassmann, Prof. E. Gittenberger & J. van Tol, Animal Systematics.

Scientific activities

- since 2006 Member Damsel fly Workers Naturalis (DAWN): phylogeny and biogeography of Palaeotropical Zygoptera; J. van Tol, F. Stokvis, V.J. Kalkman, M. Hämäläinen, D. Gassmann & R.A. Dow.
- since 2005 Collaborator on molecular research of African Odonata at Technical University Hannover.
- since 2000 Fieldwork in Brunei, Cameroon, Democratic Republic of Congo, Egypt, Ethiopia, Gabon, Ghana, Kenya, Liberia, Malawi, Mexico, Mozambique, Namibia, South Africa, Sri Lanka, Suriname, Tanzania, Uganda and Zambia.
- since 1998 Research associate of the Netherlands Centre for Biodiversity Naturalis (was National Museum of Natural History).
- 2010 Participant of two-month Congo River expedition organised by the Belgian Royal Museum for Central Africa, Royal Belgian Institute for Natural Sciences and the University of Kisangani to mark the foundation of a national centre for biodiversity in Democratic Republic of Congo.
- 2007-2008 Curator of invertebrates at National Zoological Collection of Suriname (NZCS), University of Suriname. Duties included research, education and coordination of two assistant curators.
- 2005-2008 Invited speaker at odonatological meetings in Freising, Pontevedra, Hong Kong and Nagpur.
- 2001-2007 Freelance researcher in BIOTA project *Biogeography, Diversity and Ecology of East African Odonata* funded by the German Government; author and illustrator of identification handbook, which will be published by the Belgian Royal Museum for Central Africa, and research papers.
- 2006 Consultant to Prof. M.J. Samways (Stellenbosch) on monograph of South African Odonata.
- 2001-2005 Research in the natural history museums of Berlin, Brussels, Bulawayo, London, Madrid, Paris, Stockholm and Tervuren (see Personal awards and grants).
- 2001-2004 Co-organiser and co-editor of proceedings of the first Pinhey's Heritage African Odonata Network (PHAON) Meeting on African Odonata in Gällivare and the second in Bonn.
- 2002 Co-organiser of the Worldwide Dragonfly Association's 3rd European meeting, Leiden.

Conservation and consultancy

- since 2003 Member of the IUCN Odonata Specialist Group.
- 2010-2011 Consultant for ArcelorMittal and Severstal to assess impacts of a iron ore mining in Nimba and Putu, Liberia.
- 2010 Leading author of reports on Odonata for IUCN Freshwater Biodiversity Assessment of Africa.
- 2009 Evaluator of Odonata for IUCN's pan-African Freshwater Biodiversity Assessment.
- 2009 Consultant for Malagarasi Aquatic Rapid Biodiversity Assessment, ordered by Millennium Challenge Corporation (USA) to assess impacts of a hydro-electric scheme in Tanzania.
- 2008-2009 Curator (part-time) at NCB Naturalis, co-funded by Conservation International, to support data collection and fundraising for the Global Dragonfly Assessment (GDA).
- 2008 Evaluator of Odonata for IUCN's Freshwater Biodiversity Assessment of Central Africa.
- 2007 Evaluator of Odonata for IUCN's Red List Species Index assessments.
- 2006 Coordinator of Odonata for IUCN's Freshwater Biodiversity Assessment of West Africa.
- 2004-2006 Participant of Conservation International's RAPs (biodiversity assessments) in the Democratic Republic of Congo (2004), Liberia (2005) and Ghana (2006).
- 2001-2002 Field assessment of the monotypic, isolated genus *Oreocnemis*, endemic to Malawi's Mt. Mulanje and threatened by bauxite mining. With the Mulanje Mountain Conservation Trust.
- 1999 Participant of macrofauna assessment of Pripyat (Belarus) with Belarus National Academy of Sciences and Dutch Institute for Inland Water Management and Waste Water Treatment RIZA.
- 1998-1999 Processing of data for *Red Data Book of European Butterflies (Rhopalocera)* (Van Swaay & Warren, 1998) for Dutch Butterfly Conservation.

Teaching and training

- since 2009 Invited lecturer for BSc and MSc courses on biodiversity at Leiden University.
- since 2006 Supervisor of MSc research at NCB Naturalis – F. Stokvis: Platycnemididae, 2006-2007; B. van den Heuvel: Chlorocyphidae, 2009-2010; M.X. Urrutia: Odonata as bio-indicators in tropics, 2009; R.J.T. Villanueva (Martin Fellow): Philippine Odonata, 2009.
- 2011 Invited lecturer for Tropical Biology Association field course at Amani, Tanzania.
- 2010 Invited lecturer on ecology, diversity, evolution and conservation of Odonata at Center for Tropical Ecology and Biodiversity of Tung Hai University, Taiwan.
- 2009 Member of opposition at PhD defence J. van Tol, associate director of NCB Naturalis.
- 2003 Lecturer and organiser of introductory course to Odonata for East African students as part of IUCN's Inland Water Biodiversity Assessment in Eastern Africa. Held at and in collaboration with invertebrate department of the National Museums of Kenya, Nairobi.

Collections and collaboration

- since 2007 Initiator/advisor collaboration NCB Naturalis and National Zoological Collection of Suriname (NZCS); co-author of successful application to Dutch Foreign Ministry worth 285,000 euros.
- since 1998 Set up a large collection of Afrotropical Odonata at NCB Naturalis. Digitized >600 primary types.
- 2008-2009 Databased all Odonata records in Belgian Royal Museum for Central Africa, Tervuren.
- 2006 Catalogued the 118 primary types of Odonata held in the Natural History Museum, Zimbabwe.
- 2003-2004 Revised and restructured the Odonata collections of National Museums of Kenya, Nairobi.

Public and popularisation

- 2004-2006 Editor and author of fieldguide to European Odonata for British Wildlife Publishing.
- 1998-2002 Co-editor and co-author of the handbook of Dutch Odonata; a joint effort of the Dutch society for odonatology (NVL), the youth organisation for natural history research (NJN) and the European Invertebrate Survey (EIS-Nederland). Authored chapters on behaviour, systematics and evolution, functional morphology, nomenclature and etymology, as well as species texts. Also compiled a checklist and European distribution maps and performed data analyses.
- 1999-2001 Content editor for web-based information applications for NCB Naturalis and Trezorix b.v.
- 1998-1999 Compilation of a list of Dutch names for the Dutch edition of *Butterflies of Britain and Europe* (Tolman & Lewington, 1997) for Dutch Butterfly Conservation.
- 1988-1999 Active member of Dutch youth organisation for natural history (NJN), as leader and organiser of field-trips and camps. Wrote many papers on natural history for the NJN's bulletins and authored several chapters of a book on general zoology published by NJN.
- 1997 Member of the founding committee of Dutch society for odonatology (NVL).

Editorships

- since 2010 Subject editor of Odonata for Zootaxa (ISI-listed).
- since 2007 Subject editor of taxonomy for the International Journal of Odonatology (ISI-listed).
- 2009-2010 Member of editorial board of Tijdschrift voor Entomologie.
- 1997-2001 Founder and editor-in-chief of journal Brachytron of Dutch society for odonatology (NVL).

Personal awards and grants

Worldwide Dragonfly Association's outstanding achievement award: 2005 (shared recipient).

BIOTA, funded by German Ministry of Science: 2003 (2x), 2004 (2x).

Conservation International: 2007 (\$ 40,000 for GDA project, see above).

IHP/ARI grants (EU's Improving Human Potential by Access to Research Infrastructures): ABC (Belgium): 2003, BIOD-IBERIA (Spain): 2004, COLPARSYST (France): 2003, HIGH LAT (Sweden): 2004, SYS-RESOURCE (United Kingdom): 2001.

International Dragonfly Fund: 2001 (2x), 2003.

Organising committee of European odonatological symposium in Freising, Germany: 2005.

Organising committee of international odonatological symposium in Pontevedra, Spain: 2005.

Organising committee of international odonatological symposium in Hong Kong, China: 2006.

Schure-Beijerinck-Popping Fonds for applied ecological research: 2006.

SYNTHESYS grants, funded by Integrated Infrastructure Initiative of EU's Sixth Framework Programme: BE-TAF (Belgium): 2005.

Uyttenboogaart-Eliassen Stichting of the Dutch Entomological Society NEV: 1997, 1999 (2x), 2001 (2x), 2003, 2006 (2x), 2009 (2x).

Worldwide Dragonfly Association: 2001.

Publications Klaas-Douwe B. Dijkstra

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