

## Appendix 2: Data sources

### Content

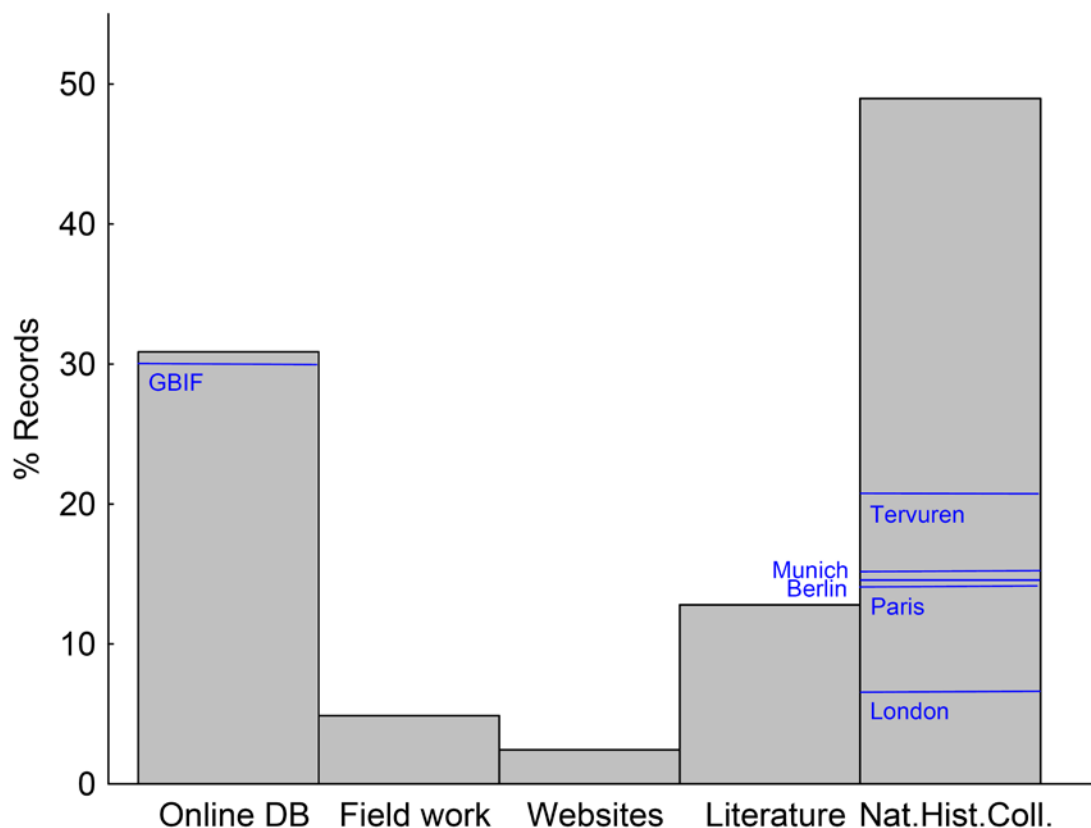
#### [S2.1 Sources and their relative importance](#)

#### [S2.2. Published literature sources](#)

#### [S2.3 Natural history collections](#)

#### [S2.4 Own fieldwork](#)

**S2.1** Overview to main sources of distribution records: Online databases, DB; Own field work; Websites (other than DBs); Published literature (see S2.2., below); Data-basing of natural history collections (Nat. Hist. Coll., with most important museums pointed out; see S2.3, below). Note the large number of records stemming from relatively small public and private collections (see S2.3 for detail).



Not included in these figures are available records that we excluded prior to analyses: 233 records for being considered 'confirmed errors', vagrants or human-transported specimens; 571 records where insufficient data on species identity or locality was given, and ca. 4'000 records considered as 'low priority' for our georeferencing efforts (i.e., common taxa, well-sampled regions, unspecific localities).

We performed an online search for titles of the 1308 published literature sources (S2.2), finding a reference for 99% of these in *Google*, 53% in *Google Scholar*, and 43% in Thompson-Reuter's *Web of Knowledge*. Only 12% of publications were available as full text online.

## S2.2 Published literature

- Aarvik, L. 1999. A new genus and species of hawk moths [sic] from Africa (Lepidoptera: Sphingidae). *Lambillionea*, 99: 190-192.
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### **S2.3 Public and private collections**

Aarvik collection, Norway

Academy of Natural Science of Philadelphia, Philadelphia, Pennsylvania, USA

Adams collection, USA

Ahmed collection, Pakistan

Allen collection, UK

Allyn Museum of Entomology, Sarasota, Florida, USA

Altermatt collection, Zurich, Switzerland

Alvarez Corral collection, Pointe-a-Pitre, France

Amarillo collection, Bogota, Colombia

American Museum of Natural History, New York, New York, USA

Annoyer collection

Australian Museum, Sydney, Australia

Australian National Insect Collection, CSIRO, Canberra, A.C.T., Australia

B.P. Bishop Museum, Honolulu, Hawaii, USA

Banziger collection, Chiang Mai, Thailand

Barlow collection, Genting, Malaysia

Barnes collection, Maya Beach, Belize

Basquin collection, Yvetot-Bocage, France

Basson collection, Tsumeb, Namibia

Beaudoin collection, Aulnay-sous-Bois, France

Beck collection & photographs, Basel, Switzerland

Becker collection, Brasilia, Brazil

Beeke collection, Stemwede, Germany

Beijing Agricultural University, Beijing, China

Belyaev collection, Russia

Beneluz collection, Belizon, French Guiana

Benyamini collection, Israel

Bergmann collection, Forst, Germany

Bermuda Department of Agriculture and Fisheries, Bermuda

Beschkow collection, Sofia, Bulgaria

Bet Ushishkin Museum, Qibbutz Dan, Israel

Bezverkhov collection, Moscow, Russia

Biodiversity Institute of Ontario, Univeristy of Guelph, Guelph, Ontario, Canada

Bjornstad collection, Norway

Bohart Museum of Entomology, University of California, Davis, California, USA

Boireau collection, France

Boorman collection.  
 Bouyer collection, Chenée, Belgium  
 Bowman collection, Golden, Colorado, USA  
 Brandt collection, Germany  
 Brechlin collection, Pasewalk, Germany  
 Brosch collection, Hille, Germany  
 Brown collection, Muguga, Kenya (ex Carcasson, 1968)  
 Brown collection, Uganda Forestry Department, Uganda (ex Carcasson, 1968)  
 Bury collection, Poland  
 Byrne collection, USA  
 Cadiou collection, Saint-Cloud, France  
 California Academy of Sciences, San Francisco, California, USA  
 California State University, Long Beach, California, USA  
 Camiade collection, Sallespisse, France  
 Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, Canada  
 Carnegie Museum of Natural History, Pittsburgh, Pennsylvania, USA  
 Centro de Investigacion Forestal de Lourizan, Pontevedra, Spain  
 Centro Nazionale per lo Studio e la Conservazione della Biodiversita Forestale "Bosco Fontana", Verona, Italy  
 Chaminade collection, France  
 Chandra collection, Jabalpur, India  
 Chen collection, Taipei, Taiwan  
 Chuvilin collection, Moscow, Russia  
 Clark collection, College of Idaho, Caldwell, Idaho, USA  
 Colecao Entomologica do Insituto Butantan, Sao Paulo, Brazil  
 Coleccion de Artropodos de la Universidad del Valle de Guatemala, Guatemala City, Guatemala  
 College of Life Science, Chongqing Normal University, Chongqing, China  
 Congdon collection, Mufindi, Tanzania  
 Conlan collection, San Diego, California, USA  
 Cornell University, Ithaca, New York, USA  
 Cotton collection, Chiang Mai, Thailand  
 CPAC, Brazil  
 Croatian Natural History Mueum, Zagreb, Croatia  
 Czech Academy of Sciences, Ceske Budejovice, Czech Republic  
 Darge collection, Clénay, France  
 De Baar collection, Brisbane, Queensland, Australia  
 de Freina collection in T. Witt Museum, Munich, Germany  
 de Freina collection, Munich, Germany

de la Maza collection, Mexico  
De Sousa collection, Lisbon, Portugal  
Decaens collection, Rouen, France  
Denver Museum of Natural History, Denver, Colorado, USA  
Department of Biology Insect Collection, Chiang Mai University, Chiang Mai, Thailand  
Department of Plant Protection, Anhui Agricultural College, Hefei, Anhui, China  
Department of Primary Industries, Mareeba, Australia  
Department of Primary Production, Darwin, Australia  
Dept of Entomology collection, Texas A&M University, College Station, Texas, USA  
Dept of Syst. & Ecol., Universidade Federal da Paraiba, Joao Pessoa, Paraiba, Brazil  
Derzhavets collection, Saint Petersburg, Russia  
Descoins collection, Bailly, France  
Desfontaine collection.  
Deutsche Entomologisches Institut, Eberswalde, Germany  
di Iorio collection, Buenos Aires, Argentina  
Diehl collection, Pematang Siantar, Sumatra, Indonesia  
Ditsong National Museum of Natural History, Pretoria, South Africa  
Dodo Creek Research Station, Honiara, Guadalcanal, Solomon Islands  
Ebert collection, Karlsruhe, Germany  
EcoMusee du Parc W, Diapaga, Burkina Faso  
Eidgenossische Technische Hochschule collection, Zurich, Switzerland  
Eikenboom collection,, The Netherlands  
Eitschberger collection, Marktleuthen, Germany  
Ek-Amnuay collection, Bangkok, Thailand  
Entomological Collection, Federal University of Uberlandia, Minas Gerais, Brazil  
Entomological Institute, Hokkaido University, Sapporo, Japan  
Entomological Museum of the Jilin Agricultural University, China  
Entomology Laboratory, College of Agriculture, University of the Ryukyus  
Essig Museum of Entomology, University of California, Berkeley, California, USA  
Estonian Museum of Natural History, Tallinn, Estonia  
Estradel collection  
Exhibition Amateur Entomologists' Society  
Faculty of Agriculture, Chiang Mai University, Chiang Mai, Thailand  
Faculty of Agronomy of Karadj, Karadj, Iran  
Falkner collection, Karlsruhe, Germany  
Floriani collection, Milano, Italy  
Florida State Collection of Arthropods, Gainesville, Florida, USA

Forest Research Centre of Sabah, Sepilok, Malaysia  
 Forest Research Institute of Malaysia, Kepong  
 Forschungsinstitut Senckenberg, Frankfurt am Main, Germany  
 Frankenbach collection, Lindenburg, Germany  
 Fukuda collection, Yotsukaido, Japan  
 Fundacion e Instituto Miguel Lillo, Tucuman, Argentina  
 Furtado collection, Diamantino, Mato Grosso, Brazil  
 Galley collection,  
 Ganson collection, Moscow, Russia  
 Geiser collection, Basel, Switzerland  
 Georgian National Simon Janashia Museum, Tbilisi, Georgia  
 Geyer collection, Germany  
 Gil-T. collection, Granada, Spain  
 Gorgeev collection, Chita, Russia  
 Guerrero Aguado collection, Gerona, Spain  
 Haapala collection, Imatra, Finland  
 Hacker collection, Munich, Germany  
 Haig collection, (ex Boorman, 1960)  
 Harding collection, USA  
 Harman collection, Turville Heath, UK  
 Harvard Museum of Natural History, Cambridge, Massachusetts, USA  
 Hauenstein collection, Untermunkheim-Schonenberg, Germany  
 Haxaire collection, Laplume, France  
 Herbin, Pechabou, France  
 Hjelde collection, Oslo, Norway  
 Hoffmann collection, Mexico  
 Hories collection, Japan  
 Houston Museum of Natural History, Houston, Texas, USA  
 Howard collection, Zimbabwe  
 Hunan Agricultural University, Institute of Entomology, Changsha, Hunan, China  
 Hundsdorfer collection, Dresden, Germany  
 Hungarian Natural History Museum, Budapest, Hungary  
 Hyatt collection, USA  
 Hyke Mirzayans Insect Museum, PPDRI, Tehran, Iran  
 Inoue collection, at Natural History Museum, London, UK  
 Insectarium de Montreal, Montreal, Canada  
 Inst. de Biologia de la Altura, Univ. Nac. de Jujuy, San Salvador de Jujuy, Argentina

Inst. de Ent. de la Univ. Metropolitana de Ciencias de la Educacion, Santiago, Chile  
Institut Fondamental d'Afrique Noire, Dakar, Senegal  
Institut für Pharmazie und Molekulare Biotechnologie, Heidelberg, Germany  
Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium  
Institute of Entomology and Plant Pathology of Evin, Tehran, Iran  
Institute of Natural Sciences, Colombian National University, Bogota, Colombia  
Instituto Colombiano Nacional Museo de Historia Natural, Bogota, Colombia  
Instituto Multidisciplinario de Biología Vegetal, Córdoba, Argentina  
Instituto Nacional de Biodiversidad (INBio), San José, Costa Rica  
Instituto Nacional de Pesquisas da Amazonia (INPA), Manaus, Brazil  
Instituto Oswaldo Cruz, Rio de Janeiro, Brazil  
Instituut voor Taxonomische Zoologie, Amsterdam, The Netherlands  
Iorio collection, Bologna, Italy  
Ivshin collection, Moscow, Russia  
Jakl collection  
Janzen ACG voucher collection, Philadelphia, Pennsylvania, USA  
Jensen collection, Chile  
Julian and Ray collection from Malawi, mediated by M. Curran, Zurich  
Kach collection, Tumbaco, Pichincha, Ecuador  
Kager collection, Nurnberg, Germany  
Karrer collection, Zofingen, Switzerland  
Kasetsart University Main Collection, Bangkok, Thailand  
Kasetsart University Student Collection, Bangkok, Thailand  
Kasulu Secondary School collection, Kasulu, Tanzania  
Katoh collection, Japan  
Kawanda Research Station collection, Kawanda, Uganda (ex Carcasson, 1968)  
Kendrick collection, Hong Kong, China  
Kennett collection, Bangkok, Thailand  
Kernbach collection, Berlin, Germany  
Kielland collection, Borøy, Norway  
Kingston collection  
Kishida collection, Japan  
Kitale Museum, Kitale, Kenya  
Kitching collection, Brisbane, Australia  
Kleiner collection, Idar-Oberstein, Germany  
Klemetti collection, Imatra, Finland  
Klemetti collection, Imatra, Finland

Knorke collection, Preslau, Germany  
Kohl, Trier, Germany  
Kohl collection, Kayl, Luxembourg  
Koslov collection, Moscow, Russia  
Koutroumpas collection, Volos, Greece  
Kovalenko collection, Moscow, Russia  
Kudo collection, Japan  
Kuhne collection, Potsdam-Babelsberg, Germany  
Kunming Southwest Forestry College, Kunming, Yunnan, China  
La Ceiba Butterfly/Insect Museum, La Ceiba, Honduras  
Laboratoire ECODIV, Université de Rouen, Rouen, France  
Laboratory of Animal Systematics and Faunistics, Samara State University, Samara, Russia  
Lachlan collection, Brisbane, Australia  
Lalanne-Cassou collection, Paris, France  
Lampe collection, Nurnberg, Germany  
Landessammlungen für Naturkunde, Karlsruhe, Germany  
Lane collection, Atherton, Australia  
LeCrom collection, Bogota, Colombia  
Legrain collection  
Lehmann collection.  
Lemaire collection, Gorde, France  
Leveque collection, Orleans, France  
Li collection, Tianjin University, Tianjin, China  
Li Hou Hun collection, Tianjin Univ., China  
Lichy collection, Maracay, Venezuela  
Life Science Ltd, Chongqing, China  
Lock collection, Queen Elizabeth National Park, Uganda  
Loffler collection, Lichtenstein  
Lopez Vaamonde collection, Spain  
Los Angeles County Museum of Natural History, Los Angeles, California, USA  
Lourens collection, Lucena City, Luzon, Philippines  
Makasuto Wildlife Trust, Abuko, The Gambia  
Mano collection, Japan  
Martinez Fernandez collection, Ares, A Coruna, Spain  
Martini collection, Ingolstadt, Germany  
McCleery collection, Lindi, Tanzania (ex Carcasson, 1968)  
McGuire Center for Lepidoptera and Biodiversity, Gainesville, USA

Meister collection, Prenslau, Germany  
 Melichar collection, Pribram, Czech Republic  
 Meyer collection, Canberra, Australia  
 Michigan State University Museum, East Lansing, USA  
 Mielke collection, Curitiba, Parana, Brazil  
 Mielke collection, Curitiba, Parana, Brazil  
 Milwaukee Public Museum, Milwaukee, Wisconsin, USA  
 Minetti collection, La Ciotat, France  
 Mission Biologique au Gabon, Paris, France  
 Miyata collection, Japan  
 Mlote Secondary School collection, Kigoma, Tanzania  
 Mooney collection, USA  
 Moosburg collection, Munich, Germany  
 Mooser collection, Mexico D.F., Mexico  
 Moretto collection,  
 Moss collection, Brisbane, Australia  
 Moulds collection, Sydney, Australia  
 Muller collection, Freising, Germany  
 Murphy collection, Malawi  
 Musee Royal de l'Afrique Centrale, Tervuren, Belgium  
 Museo Argentino de Ciencias Naturales Bernardino Rivadavia, Buenos Aires, Argentina  
 Museo Civico di Storia Naturale, Genoa, Italy  
 Museo Civico di Zoologia, Rome, Italy  
 Museo de Historia Natural "Javier Prado", Lima, Peru  
 Museo de Historia Natural de la Ciudad de Mexico, Mexico City, Mexico  
 Museo del Instituto de Zoologia Agricola Francisco Fernandez Yopez, Maracay, Venezuela  
 Museo Ecuatoriano de Ciencias naturales, Quito, Ecuador  
 Museo Historia Natural, Universidad Nacional Mayor de San Marcos, San Marcos, Peru  
 Museo Nacional de Historia Natural, Santiago, Chile  
 Museo Nacional de Historia Natural, Santo Domingo, Dominican Republic  
 Museu Bocage, Museu Nacional de Historia Natural, Universidade de Lisboa, Lisbon, Portugal  
 Museu Entomologico Ceslau Biezanko da Universidade Federal de MCEB Pelotas, Pelotas,  
 Museu Nacional do Rio de Janeiro, Rio de Janeiro, Brazil  
 Museu Paraense Emilio Goeldi, Para, Brazil  
 Museum Addis Abeba (Arat Kilo), Ethiopia  
 Museum d'Histoire de naturelle de Lyon, Lyon, France  
 Museum d'Histoire naturelle de Dijon, Dijon, France



Museum d'Histoire naturelle de Geneve, Geneva, Switzerland  
 Museum d'Histoire naturelle de Toulouse, Toulouse, France  
 Museum für Naturkunde, Freiburg im Breisgau, Germany  
 Museum für Naturkunde, Humboldt-Universität Berlin, Germany  
 Museum national d'Histoire naturelle, Paris, France  
 Museum of Natural History, University of Science and Arts of Oklahoma  
 Museum Thomas Witt, Munich, Germany  
 Museum Zoologicum Bogoriense, Cibinong, Indonesia  
 Nakao collection, Japan  
 Napolov collection, Riga, Latvia  
 Nassig collection, Muhlheim am Main, Germany  
 National Bureau of Agriculturally Important Insects, Bangalore, India  
 National Museum of Natural Sciences, Taichung, Taiwan  
 National Museum of Zimbabwe, Bulawayo, Zimbabwe  
 National Museums of Kenya, Nairobi, Kenya  
 National Science Museum, Tokyo, Japan  
 National Taiwan University, Taiwan  
 Natural History Museum (incl. supplementary collection), London, UK  
 Natural History Museum and Institute, Chiba, Japan  
 Natural History Museum of Denmark, University of Copenhagen, Copenhagen, Denmark  
 Natural History Museum of Los Angeles County, Los Angeles, USA  
 Natural History Museum, Prague, Czech Republic  
 Natural History Museum, Santa Cruz, Bolivia  
 Naturhistorisches Museum, Vienna, Austria  
 Naturhistoriska Riksmuseet, Stockholm, Sweden  
 Naumann collection in FSFM, Frankfurt am Main, Germany  
 Naumann collection in MNHU, Berlin, Germany  
 Naumann collection, Berlin, Germany  
 Netherlands Centre for Biodiversity Naturalis, Leiden, The Netherlands  
 New York State Museum, Albany, New York, USA  
 Newport collection  
 Noble collection, Annaheim Hills, California, USA  
 Northern Territory Museum, Darwin, Australia  
 Northwestern Agricultural University, Yangling, Shaanxi, China  
 Nunez-Bustos collection, Martinez, Buenos Aires, Argentina  
 Ochse collection, Weisenheim am Berg, Germany  
 Oregon State University collection, Corvallis, Oregon, USA

Otago Museum, Dunedin, New Zealand  
Oxford University Museum of Natural History, Oxford, UK  
Padre Jesus Moure collection, Universidade Federal do Parana, Curitiba, Brazil  
Paukstadt collection, Wilhelmshaven, Germany  
Paul collection, Romania  
Peigler collection, San Antonio, Texas, USA  
Perissinotto, University of Durban-Westville, Durban, South Africa  
Pessoa collection, Sobral, Ceara, Brazil  
Ping collection, Brunei  
Pinratana collection, Bangkok, Thailand  
Pittaway collection, Cholsey, UK  
PLA University of Agricultural & Animal Sciences, Changchun, Jilin, China  
Politzar collection, France  
Poulard collection, Lyon, France  
Prince Of Songkhla University, Hat Yai, Thailand  
Project Directorate of Biological Control, Bangalore, India  
Queensland Museum, Brisbane, Australia  
Racheli collection, Rome, Italy  
Raffles Museum of Biodiversity Research, National University of Singapore, Singapore  
Regnier collection, France  
Riedel collection, Munich, Germany  
Rio Grande do Sul, Brazil  
Riyadh Agricultural and Water Research Centre, Riyadh, Saudi Arabia  
Roberts collection, California, USA  
Robertson collection, Ilonga, Tanzania (ex Carcasson, 1968)  
Rolfe collection, Northfleet, UK  
Rougerie collection, France  
Royal Ontario Museum, Toronto, Canada  
Russell collection, El Roble de Heredia, Costa Rica  
Ryabov collection, Tula Exotarium, Oktyabrskaya, Russia  
Sabah Parks collection at Kinabalu Park Headquarter, Sabah, Malaysia  
Safian collection, Budapest, Hungary  
Saldaitis collection, Vilnius, Lithuania  
Salvador collection, El Salvador  
San Diego Natural History Museum, San Diego, California, USA  
Schintlmeister collection, Dresden, Germany  
Schmidt collection, Canada

Schmit collection, Videlles, France  
 Schmit collection, Warmenhuizen, Netherlands  
 Schnitzler collection, Frechen, Germany  
 Schultze collection, Bayreuth (Germany)/Wien (Austria)  
 Schutz collection,  
 Schwartz collection.  
 Sevastopulo collection, Mombasa, Kenya  
 Shanghai Institute of Entomology collection, Shanghai, China  
 Siberian Zoological Museum, Novosibirsk, Russia  
 Sieker collection, Madison, WI, USA  
 Singer collection, Bariloche, Argentina  
 Sinjaev collection, Moscow, Russia  
 Smetacek collection, Bhimtal, India  
 Sochivko collection, Moscow, Russia  
 South Africa Museum, Cape Town, South Africa  
 South China Agricultural University, Guangzhou, China  
 Staatliches Museum fur Naturkunde in Karlsruhe, Karlsruhe, Germany  
 Staatliches Museum fur Naturkunde in Stuttgart, Stuttgart, Germany  
 Staatliches Museum fur Tierkunde in Dresden, Dresden, Germany  
 Strickland Entomological Museum, University of Alberta, Edmonton, Alberta, Canada  
 Strohle collection, Weiden, Germany  
 Strohle collection, Weiden, Germany  
 Surholt collection, Germany  
 Taiwan Forestry Research Institute, Taipei, Taiwan  
 Tel Aviv University, Tel Aviv, Israel  
 Terral collection, Rosny-sur-Seine, France  
 Texas Museum of Entomology, Pipe Creek, Texas, USA  
 Treadaway collection, Frankfurt am Main, Germany  
 Turlin collection, France  
 Tuttle collection, Australia  
 Tzen collection, Taipei, Taiwan  
 United States National Museum, Washington, D.C., USA  
 Universidad Autonoma de Baja California Norte, Ensenada, Mexico  
 Universidad de Oriente collection, Santiago de Cuba, Cuba  
 Universidad Nacional Autonoma de Mexico, Mexico D.F., Mexico  
 Universite de Brazzaville collection, Brazzaville, Congo Republic  
 Universiti Kebangsaan Malaysia, Bangi, Malaysia

University College Ibadan collection, Ibadan, Nigeria  
University Museum of Zoology, Cambridge, Cambridge, UK  
University of Arizona collection, Tucson, Arizona, USA  
University of Georgia collection, Athens, Georgia, United States  
University of Guam Insect Collection, Mangilao, Guam  
University of Hawaii Insect Museum, Honolulu, Hawaii, USA  
University of Maryland, College Park, Maryland, USA  
University of Osaka Prefecture, Osaka, Japan  
University of Pennsylvania, Philadelphia, Pennsylvania, USA  
University of the West Indies, Trinidad, Trinidad & Tobago  
Ustjuzhanin collection, Primorskiy Kray, Russia  
Vaglia collection, Quebec, Canada  
van Mastrigt collection, Jayapura, Indonesia  
van Schayck collection, Bochum, Germany  
Vincent collection, Southampton, UK  
Vinciguerra collection, Palermo, Italy  
Visinskas collection, Vilnius, Lithuania  
Walsh collection, Tucson, Arizona, USA  
Wells collection, Jackson, California, USA  
Wemcken collection, Bannewitz, Germany  
Wenzel collection, Kloten, Switzerland  
Weritz collection, Braunschweig, Germany  
Western Australia Museum, Perth, Australia  
White collection, Mexico  
Willan collection, Australia  
Wolfe collection, Escondido, California, USA  
Yakovlev collection, Barnaul, Russia  
Yale Peabody Museum of Natural History, New Haven, Connecticut, USA  
Yamamoto collection, Japan  
Yen collection, Taipei, Taiwan  
Zolotuhin collection, Uljanovsk, Russia  
Zoological Institute, St Petersburg, Russia  
Zoological Museum of Kiev University, Kiev, Ukraine  
Zoological Museum, Helsinki, Finland  
Zoological Museum, Rome, Italy  
Zoological Museum, University of San Carlos, Cebu, Philippines  
Zoologisch Museum Amsterdam, Amsterdam, The Netherlands

Zoologische Staatssammlung des Bayerischen Staates, Munchen, Germany  
Zoologisches Forschungsmuseum Alexander Koenig, Bonn, Germany  
Zoologisches Institut und Zoologisches Museum, Hamburg, Germany  
Zwick collection, Schlitz, Germany

## **S2.4 Own fieldwork**

Data from our own field work stem from systematic surveys in

- Thailand (IJK, integrated to the collection of the Natural History Museum London)
- Malaysia (Beck et al. 2006, *Evolutionary Ecology Research*, **8**, 1–14)
- Switzerland (Beck et al. 2010, *Basic and Applied Ecology*, **11**, 714-722)

as well as opportunistic observations in

- Laos (JB & LBM)
- Brunei (JB)
- Ethiopia (JB)
- Indonesia (JB)

In the majority of cases, photographic evidence was sufficient to assure species identification.