



Taxonomy & Inventories

Christa Deeleman-Reinhold (1930-2025): An AI-generated memorial dataset of specimens cited across a career in arachnology

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Abstract

Background

Specimen citation records were extracted from the oeuvre of Christa Deeleman-Reinhold (1930-2025), automated using large language models (LLMs). The legacy of an exemplary career in arachnology featured 55 publications from 1971 to 2025, 49 of which contain a total of 677 taxonomic treatments that cite specimens. Updated to account for current nomenclature, these treatments contributed to the taxonomy of 644 species (including two subspecies and four with less than species level identification) across 29 spider families; 408 species were described by CDR as sole or co-authority. CDR was listed as the sole or co-collector for 125 specimen records.

New information

A total of 2719 material citation records accounting for more than 6000 individual specimens were digitized and structured according to Darwin Core standards to facilitate

data mobilization. Records were georeferenced and plotted by year of collection on an animated map and shared with the online biodiversity informatics datasphere. Both ChatGPT and Claude.ai LLMs struggled with large monographs, but Claude.ai performed better overall. In some cases, ChatGPT hallucinated non-existent species, something Claude.ai never did.

Keywords

Araneae, data mobilization, large language model, material citation record, spiders, taxonomic treatment

Introduction

Christa Deeleman-Reinhold (1930-2025) made remarkable contributions to arachnology over many decades (Fig. 1a). She made major advances in the taxonomy of troglobitic linyphiids of the Dinaric karst, Mediterranean dysderids and Southeast Asian ground spiders, among many other important contributions. The Naturalis Biodiversity Center is privileged to archive the bulk of her spider collection (Fig. 1b). Here is presented a memorial career-spanning dataset of the specimens cited across her complete oeuvre.



Figure 1.

Christa Deeleman-Reinhold and her collection at her home lab in Ossendrecht, the Netherlands:

a: Christa Deeleman-Reinhold working in her home lab, February 2019 (photo courtesy of Karen van Dorp);

b: A portion of the Deeleman collection at her home lab, March 2005 (photo courtesy of Peter Jäger).

Karen van Dorp, who was a curator in the Naturalis Collections Department for many years, wrote an intimate portrait of Christa and her spider collection (van Dorp 2020). Born on Java, Christa's family moved to the Netherlands when she was 5 years old. As a Leiden University student, she studied mantises at the Rijksmuseum van Natuurlijke Historie, now integrated into the Naturalis Biodiversity Center. Christa first started working on spiders as a postgraduate, studying Gnaphosidae from Meijndel in the Netherlands. During a camping trip to Yugoslavia, Christa became enamoured with cave animals. This

ultimately blossomed into a major study of the highly speciose troglobitic linyphiid genus *Troglohyphantes* (Deeleman-Reinhold 1978a). She significantly advanced knowledge of cave and epigeal species of Mediterranean Dysderidae (Deeleman-Reinhold 1971a, Deeleman-Reinhold 1978b, Deeleman-Reinhold and Deeleman 1988, Deeleman-Reinhold 1993a). Starting in the late 1970s, Christa turned her arachnological attention to southeast Asia, starting with an expedition to Kinabalu National Park in Malaysian Borneo. She became especially enamoured with spiders from the tropical forest canopy and marvelled at how distinct they were from what she was familiar with from ground level. Ultimately, she published her landmark book on the Forest Spiders of Southeast Asia (Deeleman-Reinhold 2001). These are just some of the highlights, large and small, from the life of a scholar arachnologist.

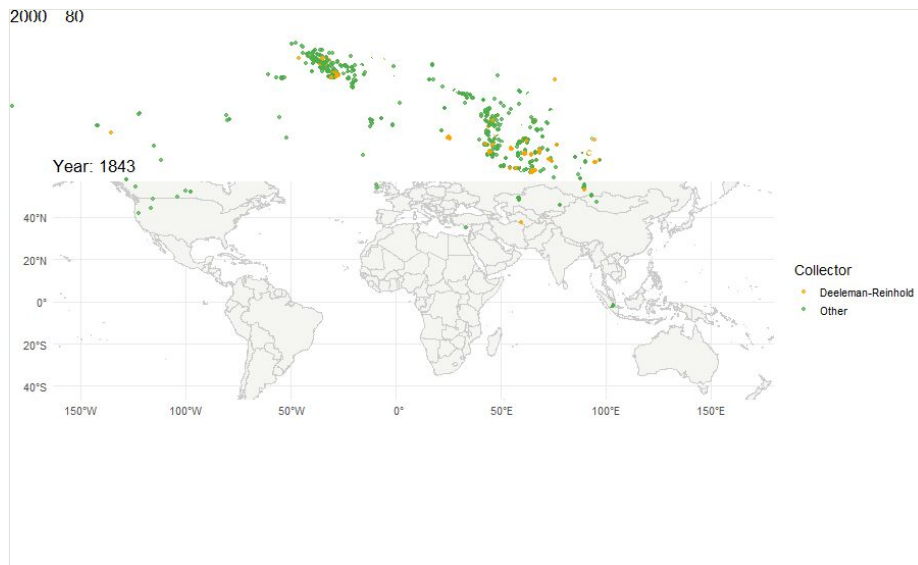


Figure 2.

Animated map plots specimens cited in the oeuvre of Christa Deeleman-Reinhold according to the year of collection. A total of 125 records collected by CDR (as sole or co-collector) indicated in orange; other records in green.

Materials and methods

A search of the World Spider Catalog (2025) bibliography found 55 publications with Christa Deeleman/Deeleman-Reinhold (CDR) as author of which 49 were assessed to contain specimen records (Table 1). In some cases, it was necessary to add or modify an OCR text layer. Most publications were in English, four in French and one in German. PDFs of all publications were accessed from the digital library of the World Spider Catalog (2025).

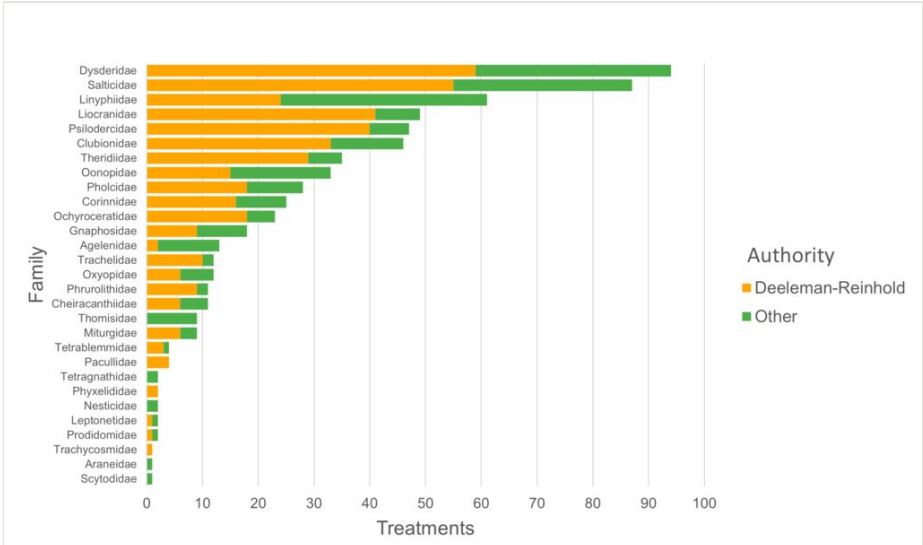


Figure 3. Family distribution of species in the oeuvre of Christa Deeleman-Reinhold updated to the current World Spider Catalog classification. Species described by CDR (as sole or co-authority) indicated in orange; species described by others in green.

Table 1. Summary of treatments in publications by Christa Deeleman-Reinhold (CDR). For each publication, the number of treatments and the number of these representing species described by CDR are given. The distribution of these treatments among families is indicated for the five most commonly treated families and an aggregate other category for the remaining 24 families. The total number of unique species, species described by CDR and distribution of treatments among families for the entire oeuvre is reported.

Publication year	Publication reference	Treatments	Described by CDR	Dysderidae	Salticidae	Linyphiidae	Liocranidae	Psilodercidae	Other
1971	Deeleman-Reinhold 1971a	7	2	7	0	0	0	0	0
1971	Deeleman-Reinhold 1971b	2	1	0	0	0	0	0	2
1974	Deeleman-Reinhold 1974	11	2	0	0	7	0	0	4

Publication year	Publication reference	Treatments	Described by CDR	Dysderidae	Salticidae	Linyphiidae	Liocranidae	Psilodercidae	Other
1977	Deeleman-Reinhold 1977a	0	0	0	0	0	0	0	0
1977	Deeleman-Reinhold 1977b	0	0	0	0	0	0	0	0
1977	Deeleman-Reinhold 1977c	0	0	0	0	0	0	0	0
1978	Deeleman-Reinhold 1978a	45	20	0	0	45	0	0	0
1978	Deeleman-Reinhold 1978b	4	2	4	0	0	0	0	0
1980	Deeleman-Reinhold 1980	8	7	0	0	0	0	0	8
1980	Deeleman-Reinhold and Deeleman 1980	0	0	0	0	0	0	0	0
1983	Deeleman-Reinhold and Deeleman 1983	4	4	0	0	0	0	0	4
1983	Deeleman-Reinhold 1983	13	2	0	0	0	0	0	13
1984	Deeleman-Reinhold 1984	5	2	0	0	5	0	0	0
1985	Deeleman-Reinhold 1985	3	3	0	0	0	0	3	0

Publication year	Publication reference	Treatments	Described by CDR	Dysderidae	Salticidae	Linyphiidae	Liocranidae	Psilodercidae	Other
1986	Deeleman-Reinhold and Platnick 1986	1	1	0	0	0	0	0	1
1986	Deeleman-Reinhold 1986a	9	6	0	0	0	0	0	9
1986	Deeleman-Reinhold 1986b	0	0	0	0	0	0	0	0
1986	Deeleman-Reinhold 1986c	1	1	0	0	0	0	0	1
1986	Deeleman-Reinhold 1986d	8	1	0	0	8	0	0	0
1987	Deeleman-Reinhold 1987	1	0	0	0	0	0	0	1
1987	Deeleman-Reinhold and Prinsen 1987	7	6	0	0	0	0	0	7
1988	Deeleman-Reinhold and Deeleman 1988	73	51	73	0	0	0	0	0
1989	Deeleman-Reinhold 1989a	4	1	0	0	0	0	0	4
1989	Deeleman-Reinhold 1989b	1	1	1	0	0	0	0	0
1993	Deeleman-Reinhold 1993a	13	4	13	0	0	0	0	0

Publication year	Publication reference	Treatments	Described by CDR	Dysderidae	Salticidae	Linyphiidae	Liocranidae	Psilodercidae	Other
1993	Deeleman-Reinhold 1993b	8	4	0	0	0	0	0	8
1993	Deeleman-Reinhold 1993c	2	1	0	0	0	0	0	2
1993	Deeleman-Reinhold 1993d	1	0	0	0	0	0	0	1
1995	Deeleman-Reinhold 1995a	1	1	0	0	0	0	0	1
1995	Deeleman-Reinhold 1995b	3	2	0	0	0	0	0	3
1995	Deeleman-Reinhold 1995c	6	5	0	0	0	0	0	6
1995	Deeleman-Reinhold 1995d	69	57	0	0	0	0	46	23
1999	Huber et al. 1999	2	0	0	0	0	0	0	2
2001	Deeleman-Reinhold and Harten 2001	5	4	0	0	0	0	0	5
2001	Deeleman-Reinhold 2001	173	122	0	0	0	43	0	130
2003	Deeleman-Reinhold and Floren 2003	5	4	0	5	0	0	0	0
2004	Deeleman-Reinhold 2004	0	0	0	0	0	0	0	0

Publication year	Publication reference	Treatments	Described by CDR	Dysderidae	Salticidae	Linyphiidae	Liocranidae	Psilodercidae	Other
2008	Versteirt et al. 2008	4	4	0	0	0	0	0	4
2009	Deeleman-Reinhold 2009a	12	6	0	0	0	0	0	12
2009	Deeleman-Reinhold 2009b	6	4	0	0	0	0	0	6
2010	Prószyński and Deeleman-Reinhold 2010	28	18	0	28	0	0	0	0
2011	Deeleman and Wunderlich 2011	1	1	0	0	0	0	0	1
2011	Grismado et al. 2011	5	3	0	0	0	0	0	5
2012	Dankittipakul and Deeleman-Reinhold 2012	1	1	0	0	0	1	0	0
2012	Prószyński and Deeleman-Reinhold 2012	26	14	0	26	0	0	0	0
2013	Dankittipakul and Deeleman-Reinhold 2013	9	8	0	0	0	9	0	0

Publication year	Publication reference	Treatments	Described by CDR	Dysderidae	Salticidae	Linyphiidae	Liocranidae	Psilodercidae	Other
2013	Prószyński and Deeleman-Reinhold 2013	21	17	0	21	0	0	0	0
2014	Grismado et al. 2014	20	5	0	0	0	0	0	20
2016	Deeleman-Reinhold et al. 2016	1	1	0	1	0	0	0	0
2021	Deeleman-Reinhold and Miller 2021	2	2	2	2	0	0	0	0
2024	Deeleman-Reinhold et al. 2024	8	2	8	0	0	0	0	0
2024	Vanuytven et al. 2024	20	18	0	0	0	0	0	20
2025	Benjamin et al. 2025	9	0	0	0	0	0	0	9
2025	Vanuytven and Deeleman-Reinhold 2025	6	6	0	0	0	0	0	6
2025	Vanuytven et al. 2025	3	1	0	0	0	0	0	3
	Total Treatments	677	428	98	91	65	53	49	321
	Total Unique Species	645	408	94	87	61	49	47	307

Premium versions of the large language models (LLM) ChatGPT (OpenAI 2024) and Claude.ai (Anthropic 2025) were used for parsing and extracting data from the documents (ChatGPT Plus subscription, Claude Pro subscription). Taxonomic publications generally contain one or more treatments, i.e. blocks of content containing data and observations on a taxon. Treatments can apply to taxa of any nomenclatural

rank, but citations of specimens from which this content is derived is generally limited to species group taxa or, occasionally, to sets of incompletely identified specimens (Miller et al. 2015, Bénichou et al. 2021, Fawcett et al. 2022). The following prompt (sometimes with *minor* variations) was used to give instructions to the LLMs:

I am preparing a summary of the life work of an arachnologist. My thought is to create a map with a time axis that shows the place and time of collection of the specimens she referenced in her 55 or so publications. I would also like to highlight the species she described from around the world. I'd like to start putting together a dataset consisting of all the specimens she cites, including both types and other material when cited, including species name, authority, family, collection date in Darwin Core format, collection year, country, collector, location, decimalLatitude, decimalLongitude, type_status, specimen count as number of males, females and juveniles and publication source including publication year. I also include the name of the pdf file with each record. In general, records should be parsed so that specimens with the same type_status on the same line, even if that means some records consist of a mix of males, females and/or juveniles. When not provided in the source, decimalLatitude and decimalLongitude should be inferred where possible. If I share with you some taxonomic publications in pdf format, can you attempt to parse out these fields? Publications will contain one or more species treatments. Delimited text will be downloaded as a csv file.

In some cases, initial attempts using the prompt partially or completely failed to find treatments with material citations, but subsequent prompts, often including relevant details such as species names and page numbers, could get the LLM to find treatments upon re-checking (Fig. 4).

In some cases, it was found to be necessary to first modify the PDF document. Some of the longest papers were broken into parts to avoid restrictions on LLM use limitations (Deeleman-Reinhold 1978a, Deeleman-Reinhold and Deeleman 1988, Deeleman-Reinhold 1995d, Deeleman-Reinhold 2001, Grismado et al. 2014). In other cases, OCR (optical character recognition) layers were added or refreshed (Deeleman-Reinhold 1971b, Deeleman-Reinhold 1985, Deeleman-Reinhold 2001, Deeleman-Reinhold 2004, Prószyński and Deeleman-Reinhold 2010, Prószyński and Deeleman-Reinhold 2012, Prószyński and Deeleman-Reinhold 2013). In one case, a page order error in the source document was corrected (Deeleman-Reinhold 1995d). For two selected publications (Deeleman-Reinhold and Miller 2021, Deeleman-Reinhold et al. 2024), catalog numbers from the Naturalis Biodiversity Center collection and specimen DOIs (Deeleman-Reinhold et al. 2024, Penev et al. 2024) were manually added for the few relevant specimens in anticipation of future data mobilization efforts. The LLM also inferred geographic coordinates for most (2430 of 2718, 89.4%) of the records. These records were then plotted on an animated map with a progressive timeline and markers appearing at the year and place of collection (Fig. 2). The overall dataset was uploaded to the Integrated Publishing Toolkit (IPT) hosted by Pensoft for sharing with the Global Biodiversity Information Facility ([GBIF.org](https://gbif.org)) as [MaterialCitation](#) records, mobilised using the Darwin Core standard (Wieczorek et al. 2012). A summary of the complete dataset listing species names by source and giving the count of records appears as Table 2.

Taxonomic nomenclature was updated to reflect the current World Spider Catalog (2025). When this required changes to the species name, the verbatim binomial as originally published is included in the Darwin Core field [previousIdentifications](#).

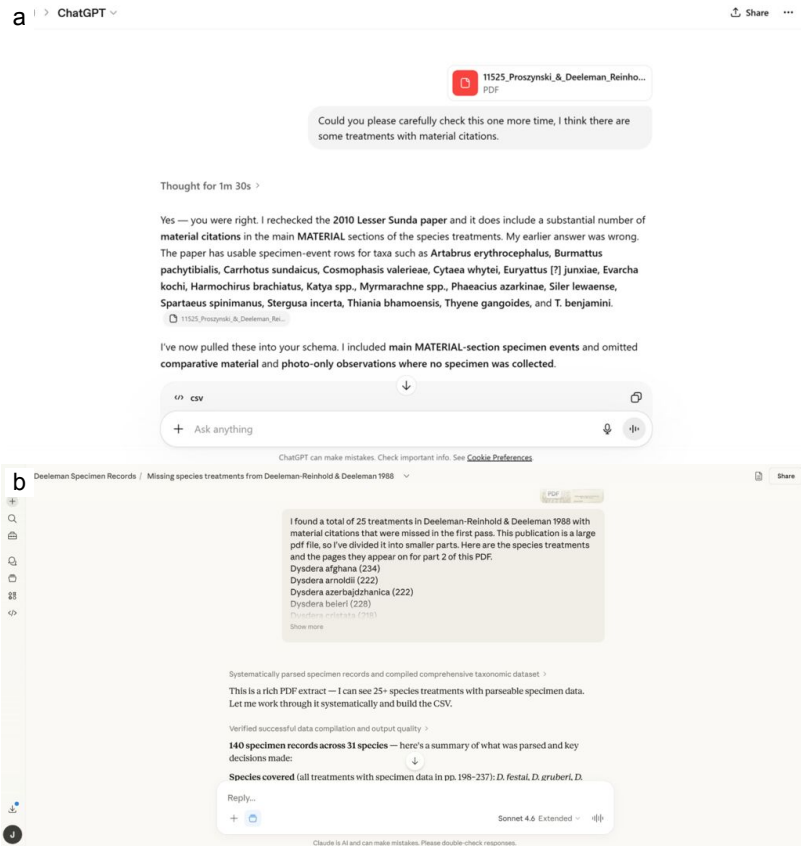


Figure 4.
Excerpts from data extraction dialogue with LLMs after initial attempts failed to find records:
a: Excerpt from dialogue with ChatGPT after it initially failed to discover records in Prószyński and Deeleman-Reinhold (2010);
b: Excerpt from dialogue with Claude.ai after it initially failed to discover records in Deeleman-Reinhold and Deeleman (1988).

To assess LLM model performance, the set of extracted treatments for each source publication was checked against the list of included taxa for each in the World Spider Catalog (2025). This is imperfect because the WSC criteria for inclusion in the list of included taxa are different from the focus of this study, which is species-level (or similar) treatments that include material citations. The WSC list of included taxa may include, for example, species that are illustrated even if no specimens are explicitly cited, as well as nomenclatural acts. Nevertheless, this check did help identify some treatments that the LLMs overlooked (Table 3). It also identified a few treatments that are missing from the

World Spider Catalog (Table 3). Once missing treatments were identified, Claude.ai was supplied with additional information such as species name and page number and prompted to recheck the source document (Fig. 4b). Checking whether some records in treatments were omitted was difficult to validate precisely, but when missing records were noticed, Claude.ai was prompted to recheck and parse them. Claude.ai was selected over ChatGPT for filling in omissions based on initial assessment of the relative performance of the two LLMs. Claude.ai ran a final quality control check on the cumulative dataset, prompted to check for inconsistencies among country, location and coordinates, issues with special font characters, and date format.

Table 2. Species treatments with material citation records from the oeuvre of Christa Deeleman-Reinhold. Notes indicate nomenclatural changes and treatments omitted from the list of taxa for the Publication reference in the World Spider Catalog (WSC).				
Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1971a	Dysderidae	<i>Mesostalita kratochvili</i>	2	
Deeleman-Reinhold 1971a	Dysderidae	<i>Mesostalita nocturna</i>	2	
Deeleman-Reinhold 1971a	Dysderidae	<i>Parastalita stygia</i>	20	
Deeleman-Reinhold 1971a	Dysderidae	<i>Stalagtia hercegovinensis</i>	2	not in WSC
Deeleman-Reinhold 1971a	Dysderidae	<i>Stalita pretneri</i>	1	
Deeleman-Reinhold 1971a	Dysderidae	<i>Stalita</i> sp.	1	not in WSC
Deeleman-Reinhold 1971a	Dysderidae	<i>Stalitella noseki</i>	3	
Deeleman-Reinhold 1971b	Leptonetidae	<i>Leptonetela kanellisi</i>	3	as <i>Sulcia kanellisi</i>
Deeleman-Reinhold 1971b	Leptonetidae	<i>Masirana akiyoshiensis</i>	1	as <i>Sarutana akiyoshiensis</i>
Deeleman-Reinhold 1974	Linyphiidae	<i>Centromerus obenbergeri</i>	1	not in WSC
Deeleman-Reinhold 1974	Linyphiidae	<i>Fageiella ensiger</i>	3	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1974	Linyphiidae	<i>Palliduphantes spelaeorum</i>	3	as <i>Lepthyphantes spelaeorum</i>
Deeleman-Reinhold 1974	Linyphiidae	<i>Porrhomma convexum</i>	3	as <i>Porrhomma pygmaeum convexum</i> ; not in WSC
Deeleman-Reinhold 1974	Linyphiidae	<i>Troglohyphantes boudewijni</i>	4	
Deeleman-Reinhold 1974	Linyphiidae	<i>Troglohyphantes lesserti</i>	10	not in WSC
Deeleman-Reinhold 1974	Linyphiidae	<i>Troglohyphantes troglodytes</i>	15	not in WSC
Deeleman-Reinhold 1974	Nesticidae	<i>Kryptonesticus arenstorffi</i>	1	as <i>Nesticus arenstorffi</i> ; not in WSC
Deeleman-Reinhold 1974	Nesticidae	<i>Typhlonesticus absoloni</i>	2	as <i>Nesticus absoloni</i>
Deeleman-Reinhold 1974	Tetragnathidae	<i>Meta bourmeti</i>	2	not in WSC
Deeleman-Reinhold 1974	Tetragnathidae	<i>Metellina merianae</i>	2	as <i>Meta merianae</i> ; not in WSC
Deeleman-Reinhold 1978a	Dysderidae	<i>Rhode aspinifera</i>	4	
Deeleman-Reinhold 1978a	Dysderidae	<i>Rhode magnifica</i>	1	
Deeleman-Reinhold 1978a	Dysderidae	<i>Rhode stalitoides</i>	2	
Deeleman-Reinhold 1978a	Dysderidae	<i>Stalagtia hercegovinensis</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes affinis</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes boudewijni</i>	6	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes brevipes</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes brignolii</i>	5	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes confusus</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes croaticus</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes cruentus</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes dekkingae</i>	3	as <i>Troglohyphantes dekkingae dekkingae</i>
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes dekkingae pauciaculeatus</i>	5	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes diabolicus</i>	9	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes draconis</i>	2	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes excavatus</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes fallax</i>	2	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes fugax</i>	2	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes gamsi</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes giromettai</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes gracilis</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes hadzii</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes helsdingeni</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes inermis</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes jamatus</i>	6	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes karawankorum</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes kordunlikanus</i>	16	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes kratochvili</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes lesserti</i>	17	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes liburnicus</i>	7	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes poleneci</i>	2	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes polyopthalmus</i>	14	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes pretneri</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes pugnax</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes roberti</i>	6	as <i>Troglohyphantes roberti roberti</i>
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes roberti dalmatensis</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes salax</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes sbordonii</i>	3	as <i>Troglohyphantes cornutus</i>
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes scientificus</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes sketi</i>	4	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes spinipes</i>	2	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes strandi</i>	6	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes svilajensis</i>	2	as <i>Troglohyphantes svilajensis svilajensis</i>
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes thaleri</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes troglodytes</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes typhlonetiformis</i>	3	as <i>Troglohyphantes typhloneti</i>
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes vicinus</i>	1	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes wiebesi</i>	3	
Deeleman-Reinhold 1978b	Linyphiidae	<i>Troglohyphantes wiehlei</i>	10	
Deeleman-Reinhold 1980	Pacullidae	<i>Lamania bernhardi</i>	1	as <i>Paculla bernhardi</i>
Deeleman-Reinhold 1980	Pacullidae	<i>Lamania inornata</i>	1	as <i>Paculla inornata</i>
Deeleman-Reinhold 1980	Pacullidae	<i>Sabahya bispinosa</i>	1	
Deeleman-Reinhold 1980	Pacullidae	<i>Sabahya kinabaluana</i>	2	
Deeleman-Reinhold 1980	Tetrablemmidae	<i>Ablemma circumspectans</i>	4	
Deeleman-Reinhold 1980	Tetrablemmidae	<i>Borneomma roberti</i>	1	
Deeleman-Reinhold 1980	Tetrablemmidae	<i>Brignoliella bicornis</i>	1	
Deeleman-Reinhold 1980	Tetrablemmidae	<i>Brignoliella delphina</i>	3	
Deeleman-Reinhold and Deeleman 1983	Pholcidae	<i>Apokayana nigrifrons</i>	4	as <i>Panjange nigrifrons</i>
Deeleman-Reinhold and Deeleman 1983	Pholcidae	<i>Panjange alba</i>	2	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold and Deeleman 1983	Pholcidae	<i>Panjange cavicola</i>	2	
Deeleman-Reinhold and Deeleman 1983	Pholcidae	<i>Panjange lanthana</i>	2	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona dubia</i>	2	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona egonpretneri</i>	4	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona hauseri</i>	1	not in WSC
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona isolata</i>	2	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona italica</i>	1	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona krivosijana</i>	1	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona luxurians</i>	1	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona myops</i>	1	not in WSC
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona paganettii</i>	11	as <i>Histocona conveniens</i>
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona palaeolithica</i>	1	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona strinatii</i>	2	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona torpida</i>	1	
Deeleman-Reinhold 1983	Agelenidae	<i>Histocona vignai</i>	2	
Deeleman-Reinhold 1984	Linyphiidae	<i>Iberoneta nasewoa</i>	1	
Deeleman-Reinhold 1984	Linyphiidae	<i>Lepthyphantes exvaginatus</i>	1	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1984	Linyphiidae	<i>Lepthyphantes venereus</i>	2	
Deeleman-Reinhold 1984	Linyphiidae	<i>Megalepthyphantes collinus</i>	1	as <i>Lepthyphantes</i> cf. <i>collinus</i>
Deeleman-Reinhold 1984	Linyphiidae	<i>Palliduphantes labilis</i>	4	as <i>Lepthyphantes labilis</i>
Deeleman-Reinhold 1985	Psilodercidae	<i>Altheopus lehi</i>	1	
Deeleman-Reinhold 1985	Psilodercidae	<i>Altheopus suhartoi</i>	3	
Deeleman-Reinhold 1985	Psilodercidae	<i>Altheopus tibiatus</i>	1	
Deeleman-Reinhold and Platnick 1986	Pholcidae	<i>Apokayana sedgwicki</i>	1	as <i>Panjange sedgwicki</i>
Deeleman-Reinhold 1986a	Pholcidae	<i>Calapnita vermiformis</i>	8	
Deeleman-Reinhold 1986a	Pholcidae	<i>Leptopholcus borneensis</i>	2	
Deeleman-Reinhold 1986a	Pholcidae	<i>Micromerys daviesae</i>	4	
Deeleman-Reinhold 1986a	Pholcidae	<i>Micromerys gracilis</i>	2	
Deeleman-Reinhold 1986a	Pholcidae	<i>Micromerys yidin</i>	1	as <i>Micromerys gracilis</i>
Deeleman-Reinhold 1986a	Pholcidae	<i>Nipisa phasmoides</i>	2	as <i>Calapnita phasmoides</i>
Deeleman-Reinhold 1986a	Pholcidae	<i>Nipisa phyllicola</i>	6	as <i>Calapnita phyllicola</i>
Deeleman-Reinhold 1986a	Pholcidae	<i>Nipisa subphyllicola</i>	3	as <i>Calapnita subphyllicola</i>
Deeleman-Reinhold 1986a	Pholcidae	<i>Panjange mirabilis</i>	2	
Deeleman-Reinhold 1986c	Phyxelididae	<i>Vytfutia bedel</i>	8	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes brignolii</i>	1	as <i>Lepthyphantes brignolii</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes byzantinus</i>	6	as <i>Lepthyphantes byzantinus</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes istrianus</i>	8	as <i>Lepthyphantes istrianus</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes malickyi</i>	1	as <i>Lepthyphantes malickyi</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes minimus</i>	1	as <i>Lepthyphantes minimus</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes pallidus</i>	6	as <i>Lepthyphantes pallidus</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes spelaeorum</i>	13	as <i>Lepthyphantes spelaeorum</i>
Deeleman-Reinhold 1986d	Linyphiidae	<i>Palliduphantes tmovensis</i>	7	as <i>Lepthyphantes tmovensis</i>
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus abanghamidi</i>	5	
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus gibber</i>	3	
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus hystrix</i>	1	
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus lemniscatus</i>	1	
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus montanus</i>	1	
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus xanthus</i>	1	
Deeleman-Reinhold 1987	Oonopidae	<i>Xyphinus xelo</i>	2	
Deeleman-Reinhold and Prinsen 1987	Pholcidae	<i>Micropholcus fauroti</i>	8	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera aculeata</i>	3	

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Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera adriatica</i>	9	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera afghana</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera</i> cf. <i>afghana</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera anatoliae</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera arabica</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera argaeica</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera arnoldii</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera asiatica</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera azerbaijdzhanica</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera beieri</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera bellimundi</i>	3	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera bottazziae</i>	7	as <i>Dysdera transadriatica</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera cechica</i>	16	as <i>Dysdera erythrina</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera cephalonica</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera circularis</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera corfuensis</i>	14	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera cristata</i>	1	

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Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera crocata</i>	14	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera cylindrica</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera dentichelis</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera dubrovinnii</i>	19	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera dunini</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera enguriensis</i>	9	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera festai</i>	3	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera fragaria</i>	8	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera gemina</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera gigas</i>	7	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera granulata</i>	16	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera gruberi</i>	4	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera halkidikii</i>	5	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera hattusas</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera hiemalis</i>	9	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera kollari</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera lata</i>	13	

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Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera limnos</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera longimandibularis</i>	7	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera longirostris</i>	20	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera lubrica</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera maurusia</i>	1	as <i>Dysdera hamulata</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera minuta</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera mixta</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera murphyorum</i>	8	as <i>Dysdera murphiorum</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera neocretica</i>	6	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera ninnii</i>	14	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera paganettii</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera pandazisi</i>	11	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera parthenogenetica</i>	8	as <i>Dysdera hungarica</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera pectinata</i>	4	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera pharaonis</i>	4	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera pretneri</i>	10	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera punctata</i>	1	

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Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera punctocretica</i>	3	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera romantica</i>	8	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera rubus</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera simoni</i>	7	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera spinicrus</i>	23	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera subnubila</i>	3	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera sultani</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera tartarica</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera lata</i>	7	as <i>Dysdera taurica</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera werneri</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera westringi</i>	18	as <i>Dysdera westringii</i>
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera yozgat</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysdera zarudnyi</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysderocrates gasparoi</i>	1	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysderocrates marani</i>	8	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysderocrates regina</i>	2	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysderocrates silvestris</i>	2	

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Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Dysderocrates storkani</i>	11	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Hygrocrates lycaoniae</i>	10	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Tedia abdominalis</i>	4	
Deeleman-Reinhold and Deeleman 1988	Dysderidae	<i>Tedia oxygnatha</i>	1	
Deeleman-Reinhold 1989a	Araneidae	<i>Nephilengys malabarensis</i>	3	as <i>Nephilengys niahensis</i>
Deeleman-Reinhold 1989a	Gnaphosidae	<i>Urozelotes rusticus</i>	1	
Deeleman-Reinhold 1989a	Phyxelididae	<i>Vytfutia pallens</i>	2	
Deeleman-Reinhold 1989a	Scytodidae	<i>Scytodes</i> spec.	1	not in WSC
Deeleman-Reinhold 1989b	Dysderidae	<i>Rhoderia hypogea</i>	1	
Deeleman-Reinhold 1993a	Dysderidae	<i>Folkia boudewijni</i>	1	
Deeleman-Reinhold 1993a	Dysderidae	<i>Folkia haasi</i>	6	
Deeleman-Reinhold 1993a	Dysderidae	<i>Folkia inermis</i>	5	
Deeleman-Reinhold 1993a	Dysderidae	<i>Folkia mrazeki</i>	7	
Deeleman-Reinhold 1993a	Dysderidae	<i>Folkia subcupressa</i>	2	
Deeleman-Reinhold 1993a	Dysderidae	<i>Harpactea catholica</i>	8	
Deeleman-Reinhold 1993a	Dysderidae	<i>Kaemis vernalis</i>	3	
Deeleman-Reinhold 1993a	Dysderidae	<i>Minotauria attemsi</i>	13	as <i>Minotauria attemsi attemsi</i>

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1993a	Dysderidae	<i>Minotauria fagei</i>	6	as <i>Minotauria attemsi fagei</i>
Deeleman-Reinhold 1993a	Dysderidae	<i>Minotauria</i> spec.	3	not in WSC
Deeleman-Reinhold 1993a	Dysderidae	<i>Rhode aspinifera</i>	4	
Deeleman-Reinhold 1993a	Dysderidae	<i>Rhode magnifica</i>	2	
Deeleman-Reinhold 1993a	Dysderidae	<i>Stalagtia hercegovinensis</i>	29	
Deeleman-Reinhold 1993b	Corinnidae	<i>Castianeira quadritaeniata</i>	1	
Deeleman-Reinhold 1993b	Corinnidae	<i>Castoponera ciliata</i>	8	as <i>Castianeira ciliata</i>
Deeleman-Reinhold 1993b	Corinnidae	<i>Castoponera scotopoda</i>	3	as <i>Castianeira scotopoda</i>
Deeleman-Reinhold 1993b	Corinnidae	<i>Corinnomma javanum</i>	2	
Deeleman-Reinhold 1993b	Corinnidae	<i>Corinnomma rapax</i>	2	
Deeleman-Reinhold 1993b	Corinnidae	<i>Corinnomma severum</i>	14	
Deeleman-Reinhold 1993b	Corinnidae	<i>Corinnomma thorelli</i>	3	
Deeleman-Reinhold 1993b	Corinnidae	<i>Pranburia mahannopi</i>	1	
Deeleman-Reinhold 1993c	Pholcidae	<i>Pholcitrhocyclus nigropunctatus</i>	2	as <i>Trichocyclus nigropunctatus</i>
Deeleman-Reinhold 1993c	Pholcidae	<i>Pholcitrhocyclus septentrionalis</i>	24	as <i>Trichocyclus septentrionalis</i>
Deeleman-Reinhold 1993d	Tetrablemmidae	<i>Bacillemma leclerci</i>	3	
Deeleman-Reinhold 1995a	Oonopidae	<i>Camptoscaphiella sinensis</i>	1	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1995b	Pholcidae	<i>Holocneminus multiguttatus</i>	8	
Deeleman-Reinhold 1995b	Pholcidae	<i>Pholcitrichocyclus pustulatus</i>	3	as <i>Trichocyclus pustulatus</i>
Deeleman-Reinhold 1995b	Pholcidae	<i>Wugigarra wunderlichi</i>	3	as <i>Psilochorus wunderlichi</i>
Deeleman-Reinhold 1995c	Corinnidae	<i>Echinax bosmansii</i>	1	
Deeleman-Reinhold 1995c	Corinnidae	<i>Echinax javana</i>	1	
Deeleman-Reinhold 1995c	Corinnidae	<i>Echinax oxyopoides</i>	6	
Deeleman-Reinhold 1995c	Corinnidae	<i>Medmassa celebensis</i>	1	as <i>Astratea celebensis</i>
Deeleman-Reinhold 1995c	Corinnidae	<i>Medmassa insignis</i>	2	as <i>Astratea insignis</i>
Deeleman-Reinhold 1995c	Corinnidae	<i>Medmassa tigris</i>	2	as <i>Astratea tigris</i>
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera apo</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera bosmansii</i>	1	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera bovenlanden</i>	1	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera caeca</i>	7	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera capra</i>	4	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera crassibulba</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera dayakorum</i>	1	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera deharvengi</i>	2	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera indulgens</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera javana</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera karkari</i>	4	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera krikkeni</i>	4	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera leclerci</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera microphthalma</i>	1	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera parva</i>	5	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera phangngaensis</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera pongo</i>	3	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera ranongensis</i>	1	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera stellafera</i>	5	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera suratthaniensis</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera transleuser</i>	2	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Speocera troglobia</i>	3	
Deeleman-Reinhold 1995d	Ochyroceratidae	<i>Theotima minutissima</i>	9	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus bako</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus biltoni</i>	1	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus complicatus</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus dekingae</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus indistinctus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus javanensis</i>	3	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus lehi</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus leucosternus</i>	4	as <i>Althepus leucosternum</i>
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus minimus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus pictus</i>	2	not in WSC
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus pum</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus stonei</i>	4	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Althepus tibiatus</i>	3	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Leclercera khaoyai</i>	4	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Leclercera longiventris</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Leclercera negros</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Leclercera ocellata</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Leclercera spinata</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Merizocera crinita</i>	1	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1995d	Psilodercidae	<i>Merizocera cruciata</i>	1	not in WSC
Deeleman-Reinhold 1995d	Psilodercidae	<i>Merizocera picturata</i>	2	as <i>Merizocera</i> cf. <i>picturata</i>
Deeleman-Reinhold 1995d	Psilodercidae	<i>Merizocera pygmaea</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Merizocera stellata</i>	3	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes albstictus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes althepoides</i>	3	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes coronatus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes egeria</i>	1	not in WSC
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes enigmatus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes fredstonei</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes howarthi</i>	4	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes kalimantan</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes leclerci</i>	5	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes leucopygius</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes limosa</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes longipalpis</i>	1	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes penaeorum</i>	2	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes pulcher</i>	3	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes septentrionalis</i>	5	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes suthepensis</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes tessellatus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes torajanus</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Psilodermes vallicola</i>	2	
Deeleman-Reinhold 1995d	Psilodercidae	<i>Relictocera mus</i>	4	as <i>Merizocera mus</i>
Deeleman-Reinhold 1995d	Psilodercidae	<i>Thaiderces djojosudharmoi</i>	2	as <i>Psilodermes djojosudharmoi</i>
Deeleman-Reinhold 1995d	Psilodercidae	<i>Thaiderces rimbu</i>	2	as <i>Psilodermes rimbu</i>
Deeleman-Reinhold 1995d	Psilodercidae	<i>Thaiderces vulgaris</i>	2	as <i>Psilodermes vulgaris</i>
Huber et al. 1999	Pholcidae	<i>Crossopriza lyoni</i>	27	
Huber et al. 1999	Pholcidae	<i>Priscula binghamae</i>	4	
Deeleman-Reinhold and Harten 2001	Pholcidae	<i>Crossopriza pristina</i>	8	not in WSC
Deeleman-Reinhold and Harten 2001	Pholcidae	<i>Crossopriza johncoudsleyi</i>	1	
Deeleman-Reinhold and Harten 2001	Pholcidae	<i>Leptopholcus dioscoridis</i>	2	
Deeleman-Reinhold and Harten 2001	Pholcidae	<i>Micropholcus jacominae</i>	7	
Deeleman-Reinhold and Harten 2001	Pholcidae	<i>Pehrforsskalia conopyga</i>	9	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Calamoneta djojosudharmoi</i>	1	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Calamoneta urata</i>	2	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Calamopus phyllicola</i>	3	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Calamopus tenebrarum</i>	6	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Cheiracanthium adjacensoides</i>	16	as <i>Cheiracanthium insulanum</i>
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Cheiracanthium brevicecaratum</i>	3	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Cheiracanthium daquillum</i>	8	<i>Cheiracanthium</i> cf. <i>daquillum</i>
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Cheiracanthium melanostomum</i>	1	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Cheiracanthium turiae</i>	7	as <i>Cheiracanthium</i> cf. <i>turiae</i>
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Summacanthium androgynum</i>	3	
Deeleman-Reinhold 2001	Cheiracanthiidae	<i>Summacanthium storki</i>	3	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona biembolata</i>	4	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona concinna</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona damirkovaci</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona hindu</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona hystrix</i>	4	as <i>Clubiona</i> cf. <i>hystrix</i>
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona inquilina</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona krisisensis</i>	3	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona melanosticta</i>	2	including <i>Clubiona melanothele</i>
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona mikhailovi</i>	2	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona pahlistapyasea</i>	7	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona pala</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona parconcinna</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona picturata</i>	4	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona scandens</i>	7	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona silvestris</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona stiligera</i>	3	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona submaculata</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Clubiona tenera</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Malamatidia bohorokensis</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Malamatidia thorelli</i>	3	
Deeleman-Reinhold 2001	Clubionidae	<i>Malamatidia vethi</i>	4	
Deeleman-Reinhold 2001	Clubionidae	<i>Matidia bipartita</i>	2	
Deeleman-Reinhold 2001	Clubionidae	<i>Matidia mas</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Matidia simia</i>	4	

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Deeleman-Reinhold 2001	Clubionidae	<i>Matidia simplex</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Matidia virens</i>	2	
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia aerea</i>	3	including <i>Nusatidia rama</i>
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia borneensis</i>	14	
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia camouflata</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia javana</i>	9	
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia luzonica</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia melanobursa</i>	1	
Deeleman-Reinhold 2001	Clubionidae	<i>Nusatidia snazelli</i>	6	
Deeleman-Reinhold 2001	Clubionidae	<i>Porrhoclubiona pteronetoides</i>	7	as <i>Clubiona pteronetoides</i>
Deeleman-Reinhold 2001	Clubionidae	<i>Porrhoclubiona viridula</i>	3	as <i>Clubiona viridula</i>
Deeleman-Reinhold 2001	Clubionidae	<i>Pristidia longistila</i>	3	
Deeleman-Reinhold 2001	Clubionidae	<i>Pristidia prima</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Pristidia secunda</i>	4	
Deeleman-Reinhold 2001	Clubionidae	<i>Pristidia viridissima</i>	12	
Deeleman-Reinhold 2001	Clubionidae	<i>Pteroneta saltans</i>	5	
Deeleman-Reinhold 2001	Clubionidae	<i>Pteroneta tertia</i>	7	

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Deeleman-Reinhold 2001	Clubionidae	<i>Scopalia verrens</i>	4	
Deeleman-Reinhold 2001	Corinnidae	<i>Aetius nocturnus</i>	1	
Deeleman-Reinhold 2001	Corinnidae	<i>Apochinomma nitidum</i>	14	
Deeleman-Reinhold 2001	Corinnidae	<i>Castianeira quadritaeniata</i>	1	
Deeleman-Reinhold 2001	Corinnidae	<i>Castianeira russellsmithi</i>	3	
Deeleman-Reinhold 2001	Corinnidae	<i>Castoponera ciliata</i>	4	
Deeleman-Reinhold 2001	Corinnidae	<i>Castoponera lecythus</i>	7	
Deeleman-Reinhold 2001	Corinnidae	<i>Castoponera scotopoda</i>	4	
Deeleman-Reinhold 2001	Corinnidae	<i>Coenoptychus pulcher</i>	1	
Deeleman-Reinhold 2001	Corinnidae	<i>Corinnomma javanum</i>	3	
Deeleman-Reinhold 2001	Corinnidae	<i>Corinnomma rapax</i>	5	
Deeleman-Reinhold 2001	Corinnidae	<i>Corinnomma severum</i>	8	
Deeleman-Reinhold 2001	Corinnidae	<i>Corinnomma thorelli</i>	2	
Deeleman-Reinhold 2001	Corinnidae	<i>Creugas gulosus</i>	5	as <i>Corinna gulosa</i>
Deeleman-Reinhold 2001	Corinnidae	<i>Echinax bosmansii</i>	1	as <i>Copa bosmansii</i>
Deeleman-Reinhold 2001	Corinnidae	<i>Echinax javana</i>	1	as <i>Copa javana</i>
Deeleman-Reinhold 2001	Corinnidae	<i>Echinax oxyopoides</i>	6	as <i>Copa oxyopoides</i>

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Deeleman-Reinhold 2001	Corinnidae	<i>Echinax panache</i>	1	
Deeleman-Reinhold 2001	Corinnidae	<i>Medmassa celebensis</i>	2	
Deeleman-Reinhold 2001	Corinnidae	<i>Medmassa diplogale</i>	4	
Deeleman-Reinhold 2001	Corinnidae	<i>Medmassa insignis</i>	5	
Deeleman-Reinhold 2001	Corinnidae	<i>Medmassa tigris</i>	5	
Deeleman-Reinhold 2001	Corinnidae	<i>Peng borneensis</i>	1	as <i>Sphecotypus</i> cf. <i>birmanicus</i>
Deeleman-Reinhold 2001	Corinnidae	<i>Pranburia mahannopi</i>	4	
Deeleman-Reinhold 2001	Corinnidae	<i>Serendib suthepica</i>	3	
Deeleman-Reinhold 2001	Corinnidae	<i>Serendib volans</i>	8	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Aphantaulax fasciata</i>	1	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Hitobia yaginumai</i>	3	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Hongkongia caeca</i>	2	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Hongkongia ellenae</i>	2	as <i>Hongkongia wuae</i>
Deeleman-Reinhold 2001	Gnaphosidae	<i>Hongkongia reptrix</i>	6	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Laronius erawan</i>	4	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Micythus anopsis</i>	1	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Micythus pictus</i>	2	

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Deeleman-Reinhold 2001	Gnaphosidae	<i>Micythus rangunensis</i>	2	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Odontodrassus aphanes</i>	2	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Odontodrassus muralis</i>	5	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Setaphis subtilis</i>	1	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Synaphosus evertsi</i>	1	as <i>Synaphosus kris</i>
Deeleman-Reinhold 2001	Gnaphosidae	<i>Synaphosus femininis</i>	2	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Synaphosus raveni</i>	1	
Deeleman-Reinhold 2001	Gnaphosidae	<i>Wyndura voc</i>	3	as <i>Molycria voc</i>
Deeleman-Reinhold 2001	Gnaphosidae	<i>Zelotes sarawakensis</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Argistes velox</i>	3	
Deeleman-Reinhold 2001	Liocranidae	<i>Jacaena distincta</i>	1	
Deeleman-Reinhold 2001	Liocranidae	<i>Jacaena erawan</i>	4	as <i>Sesieutes erawan</i>
Deeleman-Reinhold 2001	Liocranidae	<i>Jacaena mihun</i>	6	
Deeleman-Reinhold 2001	Liocranidae	<i>Jacaena schwendingeri</i>	11	as <i>Sesieutes schwendingeri</i>
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe baerti</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe calciphila</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe doleschalli</i>	2	

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Deeleman-Reinhold 2001	Liocranidae	<i>Koppe kinabalensis</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe kuntneri</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe minuta</i>	7	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe montana</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe no</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe princeps</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Koppe sumba</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Oedignatha barbata</i>	10	
Deeleman-Reinhold 2001	Liocranidae	<i>Oedignatha jocquei</i>	12	
Deeleman-Reinhold 2001	Liocranidae	<i>Oedignatha mogamoga</i>	5	
Deeleman-Reinhold 2001	Liocranidae	<i>Oedignatha scrobiculata</i>	17	
Deeleman-Reinhold 2001	Liocranidae	<i>Oedignatha spadix</i>	6	
Deeleman-Reinhold 2001	Liocranidae	<i>Paratus reticulatus</i>	1	
Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes borneensis</i>	7	
Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes bulbosus</i>	10	
Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes emancipatus</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes lucens</i>	1	

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Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes minor</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes nitens</i>	6	
Deeleman-Reinhold 2001	Liocranidae	<i>Sesieutes scrobiculatus</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Sphingius gothicus</i>	23	
Deeleman-Reinhold 2001	Liocranidae	<i>Sphingius octomaculatus</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Sphingius penicillus</i>	6	
Deeleman-Reinhold 2001	Liocranidae	<i>Sphingius punctatus</i>	9	
Deeleman-Reinhold 2001	Liocranidae	<i>Sphingius songi</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Sphingius vivax</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Sudharmia beroni</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Sudharmia pongorum</i>	3	
Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus andrewdavisii</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus fertilis</i>	15	
Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus jambiensis</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus politus</i>	4	
Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus rhino</i>	2	
Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus rothorum</i>	3	

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Deeleman-Reinhold 2001	Liocranidae	<i>Teutamus vittatus</i>	4	
Deeleman-Reinhold 2001	Miturgidae	<i>Palicanus caudatus</i>	4	
Deeleman-Reinhold 2001	Miturgidae	<i>Systaria bohorokensis</i>	1	
Deeleman-Reinhold 2001	Miturgidae	<i>Systaria dentata</i>	2	
Deeleman-Reinhold 2001	Miturgidae	<i>Systaria drassiformis</i>	2	
Deeleman-Reinhold 2001	Miturgidae	<i>Systaria elberti</i>	1	
Deeleman-Reinhold 2001	Miturgidae	<i>Tamin pseudodrassus</i>	6	
Deeleman-Reinhold 2001	Miturgidae	<i>Tamin simoni</i>	2	
Deeleman-Reinhold 2001	Miturgidae	<i>Xantharia floreni</i>	5	
Deeleman-Reinhold 2001	Miturgidae	<i>Xantharia murphyi</i>	2	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Abdosetae ornata</i>	8	as <i>Otacilia ornata</i>
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia ambon</i>	4	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia armatissima</i>	1	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia luzonica</i>	1	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia onoi</i>	2	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia parva</i>	2	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia sinifera</i>	3	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 2001	Phrurolithidae	<i>Otacilia zebra</i>	15	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Plynnon jaegeri</i>	5	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Plynnon longitarse</i>	2	
Deeleman-Reinhold 2001	Phrurolithidae	<i>Plynnon zborowskii</i>	10	
Deeleman-Reinhold 2001	Prodidomidae	<i>Prodidomus longiventris</i>	1	as <i>Prodida longiventris</i>
Deeleman-Reinhold 2001	Prodidomidae	<i>Prodidomus wunderlichi</i>	1	
Deeleman-Reinhold 2001	Trachelidae	<i>Orthobula bilobata</i>	6	
Deeleman-Reinhold 2001	Trachelidae	<i>Orthobula pura</i>	2	
Deeleman-Reinhold 2001	Trachelidae	<i>Orthobula quadrinotata</i>	3	
Deeleman-Reinhold 2001	Trachelidae	<i>Trachelas vulcani</i>	1	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna bucculenta</i>	3	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna chamaeleon</i>	13	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna dusun</i>	4	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna fukasawana</i>	5	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna ichneumon</i>	1	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna kinabaluensis</i>	7	
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna phyllicola</i>	6	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 2001	Trachelidae	<i>Utivarachna rubra</i>	2	
Deeleman-Reinhold 2001	Trachycosmidae	<i>Olin platnicki</i>	2	
Deeleman-Reinhold and Floren 2003	Salticidae	<i>Bocus angusticollis</i>	4	
Deeleman-Reinhold and Floren 2003	Salticidae	<i>Depreissia decipiens</i>	3	
Deeleman-Reinhold and Floren 2003	Salticidae	<i>Neobrettus cornutus</i>	3	
Deeleman-Reinhold and Floren 2003	Salticidae	<i>Neobrettus tibialis</i>	1	
Deeleman-Reinhold and Floren 2003	Salticidae	<i>Neobrettus xanthophyllum</i>	5	
Versteirt et al. 2008	Clubionidae	<i>Pteroneta baiteta</i>	2	
Versteirt et al. 2008	Clubionidae	<i>Pteroneta brevichela</i>	16	
Versteirt et al. 2008	Clubionidae	<i>Pteroneta longichela</i>	26	
Versteirt et al. 2008	Clubionidae	<i>Pteroneta madangiensis</i>	20	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamadruas hieroglyphica</i>	1	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamadruas severa</i>	2	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamadruas superba</i>	5	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa catenula</i>	4	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa floreni</i>	3	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa helia</i>	5	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa ignifuga</i>	2	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa incompta</i>	11	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa peterjaegeri</i>	2	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa pricompta</i>	2	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Hamataliwa vanbruggeni</i>	4	
Deeleman-Reinhold 2009a	Oxyopidae	<i>Tapponia micans</i>	4	
Deeleman-Reinhold 2009b	Theridiidae	<i>Meotipa bituberculata</i>	21	
Deeleman-Reinhold 2009b	Theridiidae	<i>Meotipa impatiens</i>	21	
Deeleman-Reinhold 2009b	Theridiidae	<i>Meotipa pallida</i>	3	
Deeleman-Reinhold 2009b	Theridiidae	<i>Meotipa picturata</i>	5	
Deeleman-Reinhold 2009b	Theridiidae	<i>Meotipa thalerorum</i>	8	
Deeleman-Reinhold 2009b	Theridiidae	<i>Meotipa vesiculosa</i>	9	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Artabrus erythrocephalus</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Burmattus pachytibialis</i>	2	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Carrhotus sundaicus</i>	3	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Chrysilla deelemani</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Cosmophasis valerieae</i>	3	

Publication reference	Family	Species name	Record count	Notes
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Cytaea haematica</i>	3	as <i>Cytaea whytei</i>
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Emertonius exasperans</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Euryattus junxiae</i>	2	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Evarcha kochi</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Gedea zabkai</i>	1	as <i>Meata zabkai</i>
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Harmochirus brachiatus</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Hasarius adansoni</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Katya florescens</i>	3	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Katya ijensis</i>	3	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Katya inornata</i>	3	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Ligurra moniensis</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Myrmarachne balinese</i>	2	

Publication reference	Family	Species name	Record count	Notes
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Myrmarachne glavisi</i>	2	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Myrmarachne jacksoni</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Phaeacius azarkinae</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Siler lewaensis</i>	1	as <i>Siler lewaense</i>
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Spartaeus spinimanus</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Stergusa incerta</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Telamonia jolensis</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Thiania bhamoensis</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Thyene benjamini</i>	1	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Thyene gangoides</i>	2	
Prószyński and Deeleman-Reinhold 2010	Salticidae	<i>Toxeus hirsutipalpi</i>	1	as <i>Myrmarachne hirsutipalpi</i>
Deeleman and Wunderlich 2011	Theridiidae	<i>Borneoridion spinifer</i>	4	
Grismado et al. 2011	Oonopidae	<i>Aprusia kataragama</i>	2	

Publication reference	Family	Species name	Record count	Notes
Grismado et al. 2011	Oonopidae	<i>Aprusia kerala</i>	2	
Grismado et al. 2011	Oonopidae	<i>Aprusia strenuus</i>	1	
Grismado et al. 2011	Oonopidae	<i>Aprusia veddah</i>	2	
Grismado et al. 2011	Oonopidae	<i>Aprusia vestigator</i>	3	
Dankittipakul and Deeleman-Reinhold 2012	Liocranidae	<i>Sudharmia tridenticula</i>	3	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Afraflacilla javanica</i>	2	as <i>Pseudicius javanicus</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Chalcovietnamicus daiqini</i>	2	as <i>Junxattus daiqini</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Colyttus kerinci</i>	2	as <i>Donoessus kerinci</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Colyttus striatus</i>	1	as <i>Donoessus striatus</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Emathis makilingensis</i>	2	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Emathis sumatrana</i>	2	as <i>Emathis sumatranus</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Epeus flavobilineatus</i>	1	as <i>Viciria flavobilineata</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Epeus mirus</i>	1	as <i>Taupoa mira</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Epeus sumatranus</i>	3	

Publication reference	Family	Species name	Record count	Notes
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Epeus tener</i>	1	as <i>Viciria tenera</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Gelotia bouchardi</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Heratemita tenenbaumi</i>	2	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Leikung porosa</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Leuserattus gunung</i>	2	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Nannenus lyriger</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Nannenus maughami</i>	2	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Nannenus siedleckii</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Nannenus syrphus</i>	1	as <i>Nanneus syrphus</i>
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Orcevia kuloni</i>	2	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Orsima thaleri</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Parabathippus petrae</i>	2	as <i>Bathippus petrae</i>

Publication reference	Family	Species name	Record count	Notes
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Phaeacius fimbriatus</i>	2	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Phintella conradi</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Taraxella sumatrana</i>	1	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Thianitara spectrum</i>	3	
Prószyński and Deeleman-Reinhold 2012	Salticidae	<i>Thianitara thailandica</i>	1	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes aberrans</i>	2	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes abruptus</i>	9	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes apiculatus</i>	4	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes bifidus</i>	2	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes borneensis</i>	2	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes lucens</i>	3	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes minuatus</i>	5	

Publication reference	Family	Species name	Record count	Notes
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes nitens</i>	2	
Dankittipakul and Deeleman-Reinhold 2013	Liocranidae	<i>Sesieutes scrobiculatus</i>	3	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Bianor balius</i>	1	as <i>Bianor incitatus</i>
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Colyttus striatus</i>	1	as <i>Donoessus striatus</i>
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Cytaea semengohi</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Cytaea sepakuensis</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Cytaea trusmadii</i>	2	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Euryattus kinabalu</i>	2	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Euryattus koomeni</i>	2	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Euryattus pengi</i>	3	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Euryattus ventralis</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Indopadilla kahariana</i>	5	as <i>Bavia kahariana</i>

Publication reference	Family	Species name	Record count	Notes
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Indopadilla suhartoi</i>	3	as <i>Bavia suhartoi</i>
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Irura onoi</i>	2	as <i>Stertinus onoi</i>
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Onomastus complexipalpis</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Onomastus danum</i>	2	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Onomastus kaharian</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Orcevia sokoli</i>	3	as <i>Echeclus sokoli</i>
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Pancorius petoti</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Poecilorchestes logunovi</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Sobasina platnicki</i>	3	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Vallimia bakoensis</i>	1	
Prószyński and Deeleman-Reinhold 2013	Salticidae	<i>Vallimia jianyuae</i>	1	
Grismado et al. 2014	Oonopidae	<i>Camptoscaphiella glenniei</i>	1	
Grismado et al. 2014	Oonopidae	<i>Dysderoides kaew</i>	3	
Grismado et al. 2014	Oonopidae	<i>Dysderoides kanoi</i>	2	

Publication reference	Family	Species name	Record count	Notes
Grismado et al. 2014	Oonopidae	<i>Dysderoides lawa</i>	1	
Grismado et al. 2014	Oonopidae	<i>Dysderoides muang</i>	2	
Grismado et al. 2014	Oonopidae	<i>Dysderoides synrang</i>	1	
Grismado et al. 2014	Oonopidae	<i>Dysderoides typhlos</i>	1	
Grismado et al. 2014	Oonopidae	<i>Himalayana andreae</i>	3	
Grismado et al. 2014	Oonopidae	<i>Himalayana castanopsis</i>	1	
Grismado et al. 2014	Oonopidae	<i>Himalayana kathmandu</i>	12	
Grismado et al. 2014	Oonopidae	<i>Himalayana martensi</i>	1	
Grismado et al. 2014	Oonopidae	<i>Himalayana parbat</i>	2	
Grismado et al. 2014	Oonopidae	<i>Himalayana siliwalae</i>	2	
Grismado et al. 2014	Oonopidae	<i>Trilacuna aenobarba</i>	1	
Grismado et al. 2014	Oonopidae	<i>Trilacuna bangla</i>	31	
Grismado et al. 2014	Oonopidae	<i>Trilacuna besucheti</i>	4	
Grismado et al. 2014	Oonopidae	<i>Trilacuna hazara</i>	3	
Grismado et al. 2014	Oonopidae	<i>Trilacuna loebli</i>	5	
Grismado et al. 2014	Oonopidae	<i>Trilacuna mahanadi</i>	2	
Grismado et al. 2014	Oonopidae	<i>Trilacuna meghalaya</i>	8	
Deeleman-Reinhold et al. 2016	Salticidae	<i>Depreissia decipiens</i>	6	
Deeleman-Reinhold and Miller 2021	Salticidae	<i>Leuserattus gunung</i>	11	
Deeleman-Reinhold and Miller 2021	Salticidae	<i>Leuserattus pristinus</i>	13	
Deeleman-Reinhold et al. 2024	Salticidae	<i>Chrysilla deelemani</i>	2	
Deeleman-Reinhold et al. 2024	Salticidae	<i>Chrysilla lauta</i>	4	
Deeleman-Reinhold et al. 2024	Salticidae	<i>Chrysilla volupe</i>	3	
Deeleman-Reinhold et al. 2024	Salticidae	<i>Phintelloides flavumi</i>	1	

Publication reference	Family	Species name	Record count	Notes
Deeleman-Reinhold et al. 2024	Salticidae	<i>Phintelloides jesudasi</i>	1	
Deeleman-Reinhold et al. 2024	Salticidae	<i>Phintelloides munitus</i>	1	as <i>Phintelloides minuta</i>
Deeleman-Reinhold et al. 2024	Salticidae	<i>Phintelloides scandens</i>	7	
Deeleman-Reinhold et al. 2024	Salticidae	<i>Phintelloides versicolor</i>	5	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus argentatus</i>	7	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus atropyga</i>	3	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus cochleatus</i>	3	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus djojosudharmoi</i>	2	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus dolichogaster</i>	1	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus dolichorhinus</i>	7	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus gretathunbergae</i>	13	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus gunungleuser</i>	1	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus lombok</i>	1	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus megarhinus</i>	8	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus nasicornis</i>	15	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus pinocchio</i>	1	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus skolorhinus</i>	4	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus sumba</i>	2	
Vanuytven et al. 2024	Theridiidae	<i>Rhinocosmetus xiphias</i>	11	
Vanuytven et al. 2024	Theridiidae	<i>Rhinoliparus kulczynskii</i>	20	
Vanuytven et al. 2024	Theridiidae	<i>Rhinoliparus missai</i>	12	
Vanuytven et al. 2024	Theridiidae	<i>Rhinoliparus nafithiamae</i>	36	

Publication reference	Family	Species name	Record count	Notes
Vanuytven et al. 2024	Theridiidae	<i>Rhinoliparus platyrhinus</i>	1	
Vanuytven et al. 2024	Theridiidae	<i>Rhinoliparus queensland</i>	2	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus bistriatus</i>	6	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus falcatus</i>	1	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus kinabaluensis</i>	3	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus mutilloides</i>	1	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus quadripunctatus</i>	5	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus rendang</i>	4	
Benjamin et al. 2025	Thomisidae	<i>Nyctimus saksang</i>	1	
Benjamin et al. 2025	Thomisidae	<i>Zametopina calceata</i>	1	not in WSC
Benjamin et al. 2025	Thomisidae	<i>Zametopina wanliae</i>	1	
Vanuytven and Deeleman-Reinhold 2025	Theridiidae	<i>Borneoridion franki</i>	2	
Vanuytven and Deeleman-Reinhold 2025	Theridiidae	<i>Borneoridion maximum</i>	4	
Vanuytven and Deeleman-Reinhold 2025	Theridiidae	<i>Borneoridion nikkae</i>	4	
Vanuytven and Deeleman-Reinhold 2025	Theridiidae	<i>Borneoridion paradoxum</i>	1	
Vanuytven and Deeleman-Reinhold 2025	Theridiidae	<i>Borneoridion pumilum</i>	4	
Vanuytven and Deeleman-Reinhold 2025	Theridiidae	<i>Borneoridion spinifer</i>	1	
Vanuytven et al. 2025	Theridiidae	<i>Ariamnes cylindrogaster</i>	1	
Vanuytven et al. 2025	Theridiidae	<i>Ariamnes papua</i>	6	
Vanuytven et al. 2025	Theridiidae	<i>Ariamnes petilus</i>	3	

Table 3.

Validation of treatments extracted from publications by Christa Deeleman-Reinhold (CDR) and comparative performance of LLMs. Publications cited by the World Spider Catalog (WSC) feature a list of included taxa. WSC included taxa is the total number of taxa (species and higher-level) in a publication according to the list of included taxa. WSC species-level excludes higher-level taxa. WSC species without records are listed by the World Spider Catalog but no specimens are cited, so they are not included in our dataset. WSC not indexed are species with cited records that are omitted from the list of included taxa; further details are given in the notes. Treatments with records are the number of species treatments that cite specimens as recognized for the purposes of this study. The number of treatments found and parsed by the Claude.ai and ChatGPT LLMs are reported as a count and percentage. Cases in which LLMs offered non-existent records or fictional species indicated with an asterisk and further explained in the notes.

Publication reference	WSC included taxa	WSC species-level	WSC species without records	WSC not indexed	Treatments with records	Claude found	Claude percent complete	ChatGPT found	ChatGPT percent complete	Note
Deeleman-Reinhold 1971a	7	6	1	2	7	7	100	6	85.7	A
Deeleman-Reinhold 1971b	4	4	2	0	2	2	100	1	50	
Deeleman-Reinhold 1974	7	7	3	7	11	11	100	8	72.7	B
Deeleman-Reinhold 1978a	66	65	20	0	45	45	100	8	17.8	
Deeleman-Reinhold 1978b	8	8	4	0	4	4	100	3	75	
Deeleman-Reinhold 1980	10	8	0	0	8	8	100	8	100	
Deeleman-Reinhold and Deeleman 1983	5	4	0	0	4	4	100	4	100	
Deeleman-Reinhold 1983	11	11	0	2	13	13	100	6	46.2	C

Publication reference	WSC included taxa	WSC species-level	WSC species without records	WSC not indexed	Treatments with records	Claude found	Claude percent complete	ChatGPT found	ChatGPT percent complete	Note
Deeleman-Reinhold 1984	6	5	0	0	5	5	100	5	100	
Deeleman-Reinhold 1985	3	3	0	0	3	3	100	3	100	
Deeleman-Reinhold and Platnick 1986	1	1	0	0	1	1	100	1	100	
Deeleman-Reinhold 1986a	11	11	2	0	9	9	100	1	11.1	
Deeleman-Reinhold 1986c	2	1	0	0	1	1	100	1	100	
Deeleman-Reinhold 1986d	15	15	7	0	8	8	100	*	0	D
Deeleman-Reinhold 1987	2	1	0	0	1	1	100	1	100	
Deeleman-Reinhold and Prinsen 1987	7	7	0	0	7	7	100	*	0	E
Deeleman-Reinhold and Deeleman 1988	89	87	15	1	73	49	67.1	53	72.6	
Deeleman-Reinhold 1989a	3	3	0	1	4	4	100	*	0	F
Deeleman-Reinhold 1989b	2	1	0	0	1	1	100	1	100	

Publication reference	WSC included taxa	WSC species-level	WSC species without records	WSC not indexed	Treatments with records	Claude found	Claude percent complete	ChatGPT found	ChatGPT percent complete	Note
Deeleman-Reinhold 1993a	17	16	4	1	13	13	100	*	0	G
Deeleman-Reinhold 1993b	9	8	0	0	8	8	100	1	12.5	
Deeleman-Reinhold 1993c	2	2	0	0	2	2	100	1	50	
Deeleman-Reinhold 1993d	2	1	0	0	1	1	100	1	100	
Deeleman-Reinhold 1995a	1	1	0	0	1	1	100	1	100	
Deeleman-Reinhold 1995b	3	3	0	0	3	3	100	2	66.7	
Deeleman-Reinhold 1995c	6	6	0	0	6	6	100	5	83.3	
Deeleman-Reinhold 1995d	71	70	4	3	69	56	81.2	20	29.0	H
Huber et al. 1999	2	2	0	0	2	2	100	*	0	I
Deeleman-Reinhold and Harten 2001	8	7	3	1	5	5	100	4	80	J
Deeleman-Reinhold 2001	238	213	40	0	173	138	79.8	75	43.4	
Deeleman-Reinhold and Floren 2003	5	5	0	0	5	5	100	5	100	

Publication reference	WSC included taxa	WSC species-level	WSC species without records	WSC not indexed	Treatments with records	Claude found	Claude percent complete	ChatGPT found	ChatGPT percent complete	Note
Versteirt et al. 2008	4	4	0	0	4	4	100	4	100	
Deeleman-Reinhold 2009a	23	22	10	0	12	12	100	3	25	
Deeleman-Reinhold 2009b	6	6	0	0	6	6	100	3	50	
Prószyński and Deeleman-Reinhold 2010	38	37	9	0	28	27	96.4	28	100	
Deeleman and Wunderlich 2011	2	1	0	0	1	1	100	1	100	
Grismado et al. 2011	5	5	0	0	5	5	100	5	100	
Dankittipakul and Deeleman-Reinhold 2012	1	1	0	0	1	1	100	1	100	
Prószyński and Deeleman-Reinhold 2012	49	46	20	0	26	26	100	3	11.5	
Dankittipakul and Deeleman-Reinhold 2013	12	12	3	0	9	9	100	9	100	

Publication reference	WSC included taxa	WSC species-level	WSC species without records	WSC not indexed	Treatments with records	Claude found	Claude percent complete	ChatGPT found	ChatGPT percent complete	Note
Prószyński and Deeleman-Reinhold 2013	29	29	8	0	21	21	100	16	76.2	
Grismado et al. 2014	23	22	2	0	20	20	100	9*	45	K
Deeleman-Reinhold et al. 2016	1	1	0	0	1	1	100	1*	100	L
Deeleman-Reinhold and Miller 2021	3	3	1	0	2	2	100	2	100	
Deeleman-Reinhold et al. 2024	8	8	0	0	8	8	100	8*	100	M
Vanuytven et al. 2024	28	26	6	0	20	20	100	11	55	
Benjamin et al. 2025	8	8	0	1	9	9	100	9	100	N
Vanuytven and Deeleman-Reinhold 2025	6	6	0	0	6	6	100	5	83.3	
Vanuytven et al. 2025	23	23	20	0	3	3	100	*	0	O

A. *Stalagtia hercegovinensis*, *Stalita* sp. not in WSC.

B. *Centromerus obenbergeri*, *Porrhomma convexum*, *Troglohyphantes lesserti*, *Troglohyphantes troglodytes*, *Kryptonesticus arenstorffi*, *Meta bourneti*, *Metellina merianae* not in WSC.

C. *Histopona hauseri*, *Histopona myops* not in WSC.

D. ChatGPT: one hallucinated treatment (records): *Troglohyphantes odysseus* (2), no such species.

E. ChatGPT: one hallucinated treatment (records): *Theotima minutissima* (2), real species, not in Deeleman-Reinhold and Prinsen (1987).

F. *Scytodes* spec. not in WSC. ChatGPT: two hallucinated treatments (records): *Troglohyphantes christae* (1), no such species; *Troglohyphantes exul* (1), real species, not in Deeleman-Reinhold (1989a).

G. *Minotauria* spec. not in WSC. ChatGPT: four hallucinated treatments (records): *Troglohyphantes orpheus* (2), real species not in Deeleman-Reinhold (1993a); *Troglohyphantes alicante* (2), no such species; *Troglohyphantes ibericus* (2), no such species; *Troglohyphantes lusitanicus* (2), no such species.

H. *Althepus pictus*, *Merizocera cruciata*, *Psilodermes egeria* not in WSC. ChatGPT: seven hallucinated treatments (records): *Psilodermes simoni* (1), *Psilodermes sarawakensis* (1), *Psilodermes malaysiensis* (1), *Psilodermes sabahensis* (1), *Psilodermes cavernicola* (1), *Psilodermes thailandicus* (1), *Psilodermes borneoensis* (1), all no such species.

I. ChatGPT: one hallucinated treatment (records): *Aucana platnicki* (1), real species, not in Huber et al. (1999).

J. *Crossopriza pristina* not in WSC.

K. ChatGPT: nine proper treatments plus five hallucinated treatments (records): *Chibchea salta* (2), real species, not in Grismado et al. (2014); *Trilacuna trilobata* (3), no such species; *Trilacuna werni* (3), real species, no records in Grismado et al. (2014); *Trilacuna gongshan* (3), real species, not in Grismado et al. (2014); *Trilacuna rastrum* (2), real species, no records in Grismado et al. (2014).

L. ChatGPT: one proper treatment plus one hallucinated treatment (records): *Amaurobius koponeni* (1), real species, no records in Deeleman-Reinhold et al. (2016).

M. ChatGPT: eight proper treatments plus one hallucinated treatment (records): *Pristidia cervicornuta* (2), real species, no records in Deeleman-Reinhold et al. (2024).

N. *Zametopina calceata* not in WSC.

O. ChatGPT: two hallucinated treatments (records): *Brignolia parumpunctata* (1), *Brignolia trichinalis* (2), both real species, no records in Vanuytven et al. (2025).

Data resources

The records extracted for this dataset are deposited at GBIF, the Global Biodiversity Information Facility, <https://ipt.pensoft.net/manage/resource.do?r=deelemanreinhold#>.

Checklist of treatments

Order Araneae Clerck, 1757

Notes: See Table 2.

Analysis

The overall dataset contains 2718 material citation records from 677 taxonomic treatments in 49 publications (Table 1). After accounting for nomenclatural changes (World Spider Catalog 2025), the dataset contains records for a total of 644 species (including two subspecies), including 408 where CDR is the sole or co-author (Fig. 3). The records account for more than 6000 individual specimens, not all of which are explicitly counted in the records. After updating the data to reflect current taxonomic nomenclature as expressed through the World Spider Catalog (2025), 29 families are involved, with the top three families (Dysderidae, Salticidae and Linyphiidae) accounting for nearly 38% of the species (Fig. 3, Table 1). Plotting records on the animated map required a georeferenced location and a year. A total of 284 records lacked a value for year; the remaining records were collected between 1842 and 2013. Ultimately, the map contained 2430 records with both year and geographic coordinates, many of which were inferred by the LLM (Fig. 2). Only four taxa have less than species level identification, one species of *Scytodes* and three partially identified dysderids.

Both LLMs struggled with long taxonomic publications (e.g. Deeleman-Reinhold and Deeleman 1988, Deeleman-Reinhold 1995d, Deeleman-Reinhold 2001). But for more modest publications, Claude.ai tended to perform at least as good or better than ChatGPT, finding all treatments with material citations in most cases. In several cases, ChatGPT hallucinated non-existent species, something Claude.ai never did. With Claude.ai, limitations appeared to come largely from features designed to regulate use of the service. This meant that some large publications had to be broken up into sections and also that some tasks were interrupted. ChatGPT was used to help generate the R code (R Development Core Team 2024) for the animated map (Fig. 2; Suppl. material 1).

Discussion

Citations of specimen records in taxonomic literature can be among the highest quality primary biodiversity data (Meier and Dikow 2004, Dikow et al. 2009). However, making such data accessible for biodiversity research is challenging (Orr et al. 2025). Miller et al. (2015) used a natural language processing application (Sautter 2013) to mobilise data from a collection of publications on spider taxonomy. A key focus of the study was the material citations data, which were visualized through a series of charts. The 2015 study had other features such as the deposition of treatment text and figures to Plazi's Treatment Bank (<https://plazi.org/treatmentbank/>; Fawcett et al. 2022). By contrast, this

memorial dataset is focused exclusively on Material Citations records; treatment text, figures and other elements integrated into the Plazi workflow are not mobilised here. Some other studies based on digitizing specimen citations from a corpus of legacy taxonomic literature have relied on manual effort (e.g. Jäger and Schönhofer 2021). Here, large language models were investigated as a means to again extract specimen citation data from taxonomic literature, this time applied to the oeuvre of an individual scientist.

A last word

Christa lamented that there were still so many more species within her collection in need of description and that this was just a hint at the magnitude of what still awaits discovery globally. Regarding the future of biodiversity discovery, I think we have more reason for optimism than perhaps Christa recognized. Integrated approaches to taxonomy including aids like DNA barcoding (Ratnasingham and Hebert 2013), improvements in image-based identification powered by computer vision models (Wäldchen and Mäder 2018, Høye et al. 2021), the explosive growth of citizen-science communities (Chandler et al. 2016, Callaghan et al. 2020), and a network of institutions dedicated to the mobilization and aggregation of primary biodiversity data (Nelson and Ellis 2018, Heberling et al. 2021, Svenningsen and Schigel 2024) all offer us an array of tools for biodiversity discovery and monitoring unavailable to previous generations. I had the privilege of collaborating with Christa on one of her last publications and, as it turned out, we were able to use this publication as a vehicle to prototype an advance in the mobilization of biodiversity data (Deeleman-Reinhold et al. 2024). Digital Object Identifiers, or DOIs, are unique persistent identifiers familiar to all in academic publishing; our novel application was to apply these to specimens.

But in the glow of our increasingly digital and hyperlinked world, we risk leaving valuable knowledge behind. The long legacy of taxonomic publications contain a wealth of knowledge. But text on a page, whether paper or a PDF, is not the same as structured records representing the same information in a database and, in the contemporary world, the latter is much more accessible than the former. Although this shocks my students, not all knowledge is googleable. So, dear reader, this work is my way of ensuring that one aspect of Christa's contribution to arachnology is not so easy to forget.

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Wouter Addink, Martina Pavlek, Peter Jäger, Maria Chatzaki, Donat Agosti, Sylvia Mota de Oliveira, Vincent Merckx and the Understanding Evolution group for helpful discussions and support.

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Supplementary material

Suppl. material 1: Animated Map R Markdown

Authors: Jeremy Miller

Data type: R Markdown

Brief description: R Markdown script for generating the animated map.

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