

Checkliste der Weberknechte Mittel- und Nordeuropas
Checklist of the harvestmen of Central and Northern Europe
(Arachnida: Opiliones).
Version 27. Dezember 2004.

(ein Service der "Arachnologischen Gesellschaft e.V.")
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(wir bitten um Mitteilung von Änderungen, Ergänzungen oder Verbesserungsvorschlägen)
(please inform us about corrections, additions or improvements)

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Einführung/introduction

Folgende zusammenfassenden Publikationen liegen dieser Liste zugrunde (mit Angabe der Kürzel für die Checkliste):

This list is based on the following comprehensive papers (with abbreviations used in the checklist):

Belgien/Belgium/BE	vhe	Vanhercke (1999)
Niederlande/Netherlands/NL	spo	Spoek (1975)
Dänemark/Denmark/DK	sto	Stol (1993, 2002), siehe auch/see also: Skipper (2003) ; [ohne Färöer Inseln/except the Faroe Isles]
Norwegen/Norway/NO	sto	Stol (1993, 2002)
Schweden/Sweden/SE	sto	Stol (1993, 2002)
Finnland/Finland/FI	sto	Stol (1993, 2002), s. auch/see also: Heinäjoki (1944)
Deutschland/Germany/DE	blm	Bliss & Martens (1995)
Schweiz/Switzerland/CH	mar	Martens (1978)
Österreich/Austria/AT	kog	Komposch & Gruber (2004)
Tschechische Republik/Czech Republic/CZ	kli	Klimeš (2000)
Ungarn/Hungaria/HU	kom	Komposch (2004)
Slowakei/Slovakia/SK	kli	Klimeš (2000)
Polen/Poland/PL	sta	Starega (2000)
Slowenien/Slovenia/SI	nog	Novak & Gruber (2000)

N (= neu/new) in anderen Arbeiten publizierte Nachweise (mit konkreten Zitaten)/records published in other papers (cited in detail).

Benennung der Arten nach Martens (1978), mit Aktualisierungen; Familienzuordnung nach [Kury \(2003\)](#).

Hinweise:

Die Familienzuordnung und -benennung unterscheidet sich gegenüber Martens (1978) in zwei Punkten:

- Cladonychiidae = Erebomastriidae (Cokendolpher 1985)
- Von den Phalangiidae (sensu Martens 1978) sind nun die Sclerosomatidae abgetrennt (vgl. Crawford 1992, Starega 2000, Kury 2003). Die Zusammengehörigkeit der Gattungen dieser abgetrennte Familie ist weniger fraglich als die Monophylie der in den Phalangiidae verbleibenden Gattungen. Wir haben uns aber dennoch für diese Lösung entschieden und hoffen damit die Diskussion anzuregen und zu notwendigen Revisionsarbeiten zu motivieren.

– Zahlreiche Arten der Gattung *Trogulus* sind dringend revisionsbedürftig (Martens in litt., Komposch, Novak, Schönhofer unpubl.).

Species nomenclature after Martens (1978), with recent changes; familial affiliation after [Kury \(2003\)](#).

Remarks:

– The familial affiliations and names of the families differ from Martens (1978) in two cases:

- Cladonychiidae = Erebomastriidae (Cokendolpher 1985)
- The Sclerosomatidae are now separated from the Phalangiidae (s. lat., see Martens 1978) (compare Crawford 1992, Starega 2000, Kury 2003). The relationship of the genera of the Sclerosomatids is much less questionable than the monophyly of the remaining Phalangiid genera. We decided to use the presented solution and hope to motivate the discussion and necessary revisions.

– Numerous species of the genus *Trogulus* need a revision (Martens in litt., Komposch, Novak, Schönhofer unpubl.).

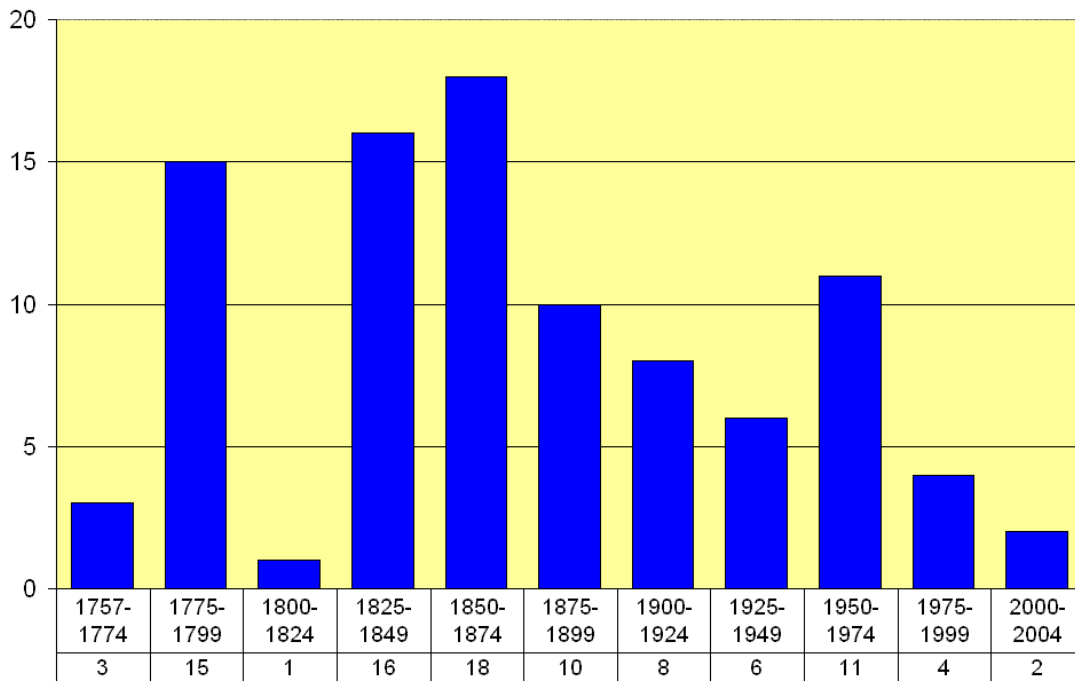
Familiensummen/totals of families

family	total	BE	NL	DK	NO	SE	FI	PL	DE	CH	AT	CZ	SK	HU	SI
Sironidae	2							1			1		1		1
Travuniidae	1									1					
Cladonychiidae	2								1		1		1	1	1
Nemastomatidae	17	5	5	2	3	2	1	5	8	6	12	5	5	6	10
Dicranolasmatidae	1										1		1	1	1
Trogulidae	10	3	3	1	1	1		2	6	8	8	2	2	3	6
Ischyropsalididae	7		1					2	2	2	5	2	1	1	4
Phalangiidae	35	16	14	12	10	12	9	17	22	22	22	15	16	15	24
Sclerosomatidae	19	3	4	4	3	5	2	9	10	10	11	9	5	6	11
number of (sub)species	94	27	27	19	17	20	12	36	49	49	61	33	32	33	58
number of families	9	4	5	4	4	4	3	6	6	6	8	5	8	7	8

Auswertung der Erstbeschreibungsjahre der 94 Weberknechtarten aus den 14 beteiligten Ländern
Evaluation of the years of the first description for the 94 harvestmen species from the 14 participating countries

Abb. 1: Erstbeschreibungsjahre der 94 Weberknechtarten, aufgeteilt in 25-Jahres-Abschnitte (unter den Zeitabschnitten sind jeweils die Artensummen angegeben)

Fig. 1: Years of the first description for the 94 harvestmen species divided into 25 year sections (the totals for each quarter-century are given in a table below the figure)



Kurze Diskussion zu Abb. 1:

- bis 1899 wurden 2/3 (63 spp.) aller bekannten Weberknechtarten der hier behandelten 14 Länder beschrieben
- seit 1875 ist – mit der Ausnahme des Zeitraumes 1950-1974 (u.a. durch Jürgen Gruber und Jochen Martens) – ein stetiger Rückgang der Neubeschreibungen zu verzeichnen
- die Abbildung lässt vermuten, dass in Mitteleuropa nur noch wenige unbeschriebene Arten zu erwarten sind

Short discussion of Fig. 1:

- until 1899 two thirds (63 spp.) of known harvestman species from these 14 countries were described
- since 1875 a permanent decline in the number of descriptions is registered – with exception of the period 1950-1974 (for example by Jürgen Gruber and Jochen Martens)
- the graphic shows that there may only be a few undescribed species left in central and northern Europe

Checkliste/checklist

taxon	author	BE	NL	DK	NO	SE	FI	PL	DE	CH	AT	CZ	SK	HU	SI	synonymies, reference, notes
Sironidae																
<i>Siro carpathicus</i>	Rafalski, 1956							sta					kli			
<i>Siro duricorius</i>	(Joseph, 1868)										kog				nog	
Travuniidae																
<i>Peltonychia leprieuri</i>	(Lucas, 1860)									mar						
Cladonychiidae																
<i>Holoscotolemon jaqueti</i>	(Corti, 1905)												kli	kam		
<i>Holoscotolemon unicolor</i>	Roewer, 1915								blm		kog				nog	
Nemastomatidae																
<i>Carinostoma carinatum</i>	(Roewer, 1914)										kog				nog	
<i>Carinostoma elegans</i>	(Sørensen, 1894)													kam		
<i>Histicostoma dentipalpe</i>	(Ausserer, 1867)								blm	mar	kog				nog	
<i>Mitostoma alpinum</i>	(Hadži, 1931)										kog				nog	
<i>Mitostoma chrysomelas</i>	(Hermann, 1804)	vhe	spo	sto	N	sto		sta	blm	mar	kog	kli	kli	kam	nog	NO: Olsen (2000)
<i>Nemastoma bidentatum bidentatum</i>	Roewer, 1914										kog				nog	SI: also <i>N. bid. bidentatum</i> x <i>sparsum</i> (Martens 1978)
<i>Nemastoma bidentatum relictum</i>	Gruber & Martens, 1968										kog					
<i>Nemastoma bidentatum sparsum</i>	Gruber & Martens, 1968										kog		kli	kam	nog	SI: see <i>N. bid. bidentatum</i>
<i>Nemastoma bimaculatum</i>	(Fabricius, 1775)	vhe	N		sto				blm							NL: Wijnhoven & Koomen (1997)
<i>Nemastoma dentigerum</i>	Canestrini, 1873		spo						blm	mar					nog	
<i>Nemastoma lugubre</i>	(Müller, 1776)	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kam		
<i>Nemastoma schuelleri</i>	Gruber & Martens, 1968										kog					
<i>Nemastoma triste</i>	(C.L. Koch, 1835)	N						sta	blm		kog	kli			nog	BE: Martens (1978)
<i>Paranemastoma bicuspidatum</i>	(C.L. Koch, 1835)								blm	mar	kog				nog	
<i>Paranemastoma kochi</i>	(Nowicki, 1870)							sta				kli	kli			
<i>Paranemastoma quadripunctatum</i>	(Perty, 1833)	vhe	spo					sta	blm	mar	kog	kli	kli	kam	nog	<i>Nemastoma</i> q.
<i>Paranemastoma silli</i>	(Herman, 1871)													kam		
Dicranolasmatidae																
<i>Dicranolasma scabrum</i>	(Herbst, 1799)										kog		kli	kam	nog	
Trogulidae																
<i>Anelasmacephalus cambridgei</i>	(Westwood, 1874)	vhe	spo						blm	mar	kog					
<i>Anelasmacephalus hadzii</i>	Martens, 1978									mar	kog				nog	
<i>Anelasmacephalus rufitarsis</i>	Simon, 1879									N						CH: Martens & Chemini (1988)
<i>Trogulus cisalpinus</i>	Chemini & Martens, 1988									N	kog					CH: Cotti (1989)
<i>Trogulus closanicus</i>	Avram, 1971								blm	N	kog				nog	CH: Weiß et al. (1998)
<i>Trogulus falcipenis</i>	Komposch, 2000										kog				nog	
<i>Trogulus martensi</i>	Chemini, 1983								N	N						DE: Malten (1999), Spelda et al. (2003); CH: Weiß et al. (1998)
<i>Trogulus nepaeformis</i>	(Scopoli, 1763)	vhe	N					sta	blm	mar	kog	kli	kli	kam	nog	frequently used sensu lato - see <i>T. closanicus</i> and <i>T. martensi</i> ; NL: Wijnhoven (1998)
<i>Trogulus tingiformis</i>	(C.L. Koch, 1847)								blm		kog			kam	nog	1848 (see Brignoli 1985)
<i>Trogulus tricarinatus</i>	(Linnaeus, 1767)	vhe	spo	sto	sto	sto		sta	blm	mar	kog	kli	kli	kam	nog	sensu lato; 1758 (lapsus)
Ischyropsalididae																
<i>Ischyropsalis carli</i>	Lessert, 1905								blm	mar	kog					
<i>Ischyropsalis hadzii</i>	Roewer, 1950										kog				nog	
<i>Ischyropsalis hellwigi hellwigi</i>	(Panzer, 1794)		spo					sta	blm		kog	kli		kam	nog	<i>hellwigi</i>
<i>Ischyropsalis helvetica</i>	Roewer, 1916									mar	kog					
<i>Ischyropsalis kollari</i>	C.L. Koch, 1839										kog				nog	
<i>Ischyropsalis manicata</i>	L. Koch, 1865							sta				kli	kli			
<i>Ischyropsalis muellneri</i>	Hamann, 1898														nog	

taxon	author	BE	NL	DK	NO	SE	FI	PL	DE	CH	AT	CZ	SK	HU	SI	synonymies, reference, notes
Phalangidae																
<i>Amilenus aurantiacus</i>	(Simon, 1881)	vhe							blm	mar	kog					nog
<i>Dasylobus graniferus</i>	(Canestrini, 1871)									mar	kog					nog
<i>Dasylobus ligusticus</i>	(Roewer, 1923)									mar						
<i>Dicranopalpus gasteinensis</i>	Doleschall, 1852								blm	mar	kog					nog
<i>Dicranopalpus ramosus</i>	(Simon, 1909)	vhe	N						N							
<i>Egaenus convexus</i>	(C.L. Koch, 1835)							sta			kog	kli	kli	kom	nog	
<i>Lacinius dentiger</i>	(C.L. Koch, 1847)							sta	blm		kog	kli	kli	kom	nog	1848 (see Brignoli 1985)
<i>Lacinius ephippiatus</i>	(C.L. Koch, 1835)	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	
<i>Lacinius horridus</i>	(Panzer, 1794)	vhe		N		sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	DK: Enghoff (1999)
<i>Lophopilio palpinalis</i>	(Herbst, 1799)	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	
<i>Megabunus armatus</i>	(Kulczyński, 1887)										kog					nog
<i>Megabunus diadema</i>	(Fabricius, 1779)				sto											
<i>Megabunus lesserti</i>	Schenkel, 1927								blm	mar	kog					
<i>Megabunus rhinoceros</i>	(Canestrini, 1872)									mar						
<i>Metaphalangium cirtanum</i>	(C.L. Koch, 1839)														N	SI: Novak et al. (2002)
<i>Metaplathybunus carneltutii</i>	Hadži, 1973															nog
<i>Mitopus glacialis</i>	(Heer, 1845)								N	mar	kog					nog
<i>Mitopus morio</i>	(Fabricius, 1779)	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	DE: Muster (1999)
<i>Odiellus granulatus</i>	(Canestrini, 1871)									mar						1799 (see Stol 2000)
<i>Odiellus spinosus</i>	(Bosc, 1792)	vhe	spo						blm	mar						nog
<i>Oligolophus hanseni</i>	(Kraepelin, 1896)	vhe	spo	sto	sto	sto		sta	blm	N						CH: Cannata (1988); O. <i>hanseni</i>
<i>Oligolophus tridens</i>	(C.L. Koch, 1836)	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	
<i>Opilio canestrinii</i>	(Thorell, 1876)	vhe	N	sto		sto		sta	blm	mar	kog	kli	kli		N	O. <i>ravennae</i> auct.; NL: Van der Weele (1993); SI: Novak et al. (2002)
<i>Opilio dinaricus</i>	Silhavy, 1938							sta	N		kog		kli	kom	nog	DE: Spelda et al. (2003)
<i>Opilio parietinus</i>	(De Geer, 1778)	vhe	spo	sto	N	sto	sto	sta	blm	N	kog	kli	kli	kom	nog	old record in CH was uncertain (Martens 1978); NO: Olsen (1995), CH: Dumitrescu (1987)
<i>Opilio ruzickai</i>	Silhavy, 1938										kog					nog
<i>Opilio saxatilis</i>	C.L. Koch, 1839	vhe	spo	sto		sto		sta	blm	mar	kog	kli	kli	kom	nog	
<i>Opilio transversalis</i>	Roewer, 1956															nog
<i>Paroligolophus agrestis</i>	(Meade, 1855)	vhe	spo	sto	sto	sto		sta	blm							
<i>Phalangium opilio</i>	Linnaeus, 1758	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	Linnaeus, 1761
<i>Platybunus bucephalus</i>	(C.L. Koch, 1835)						sto	sta	blm	mar	kog	kli	kli	kom	nog	
<i>Platybunus pallidus</i>	Silhavy, 1938							sta				kli	kli	kom		FI: records uncertain (Martens 1978; Stol in litt.)
<i>Platybunus pinetorum</i>	(C.L. Koch, 1839)	vhe	N						blm	mar	kog					NL: Wijnhoven (1998)
<i>Rilaena triangularis</i>	(Herbst, 1799)	vhe	spo	sto	sto	sto	sto	sta	blm	mar	kog	kli	kli	kom	nog	
<i>Zacheus crista</i>	(Brullé, 1832)											kli	kli	kom		<i>Zacheus</i> (see Crawford 1992)
Sclerosomatidae																
<i>Astrobonus bernardinus</i>	Simon, 1879									mar						
<i>Astrobonus helleri</i>	(Ausserer, 1867)									mar	kog					nog
<i>Astrobonus laevipes</i>	(Canestrini, 1872)		N					sta	blm		kog	kli	kli	kom	nog	NL: Wijnhoven (2003)
<i>Gyas annulatus</i>	(Olivier, 1791)								blm		kog					nog
<i>Gyas titanus</i>	Simon, 1879							sta	blm	mar	kog	kli	kli	kom	nog	CH: Locus typicus Switzerland, but no verified records
<i>Homalenotus quadridentatus</i>	(Cuvier, 1795)	vhe	spo							mar						there are no verified records from DE
<i>Leiobunum blackwalli</i>	Meade, 1861	vhe	spo	sto		sto		sta	blm	mar		kli				
<i>Leiobunum limbatum</i>	L. Koch, 1861					sto		sta	blm	mar	kog	kli				nog
<i>Leiobunum roseum</i>	C.L. Koch, 1839										kog					nog

taxon	author	BE	NL	DK	NO	SE	FI	PL	DE	CH	AT	CZ	SK	HU	SI	synonymies, reference, notes
<i>Leiobunum rotundum</i>	(Latreille, 1798)	vhe	spo	sto	sto	sto		sta	blm	mar	kog	kli	kli	kom	nog	
<i>Leiobunum rupestre</i>	(Herbst, 1799)			sto	sto	sto	sto	sta	blm	mar	kog	kli		kom	nog	CH: old records (Lessert 1917) should be verified; records from northern Europe and northern Germany may belong to <i>L. tisciae</i> (Martens in litt.)
<i>Leiobunum subalpinum</i>	Komposch, 1998										kog					
<i>Leiobunum tisciae</i>	Avram, 1968							sta				kli	kli	kom		occurs presumably in other European countries and is not yet recognised (Martens 1978)
<i>Nelima apenninica</i>	Martens, 1969										kog					
<i>Nelima doriae</i>	(Canestrini, 1871)									N					nog	by Tedeschi & Sciaky (1996) announced new for CH, as the record of Lessert (1917) is not included in Martens (1978); CH: Lessert (1917)
<i>Nelima gothica</i>	Lohmander, 1945			sto	sto	sto	sto	sta	blm			kli				
<i>Nelima narcisi</i>	Novak & Slana, 2003														N	SI: Novak & Slana (2003)
<i>Nelima sempronii</i>	Szalay, 1951							sta	blm		kog	kli	kli	kom	nog	<i>semproni</i>
<i>Nelima silvatica</i>	(Simon, 1879)								blm	N						CH: Hänggi & Weiß (2003)

Literatur/references

- Bliss, P. & J. Martens (1995): Weberknechte. In: Platen, R., T. Blick, P. Bliss, R. Droglia, A. Malten, J. Martens, P. Sacher & J. Wunderlich: Verzeichnis der Spinnentiere (excl. Acarida) Deutschlands (Arachnida: Araneida, Opilionida, Pseudoscorpionida). – Arachnol. Mitt. Sonderband 1: 1-55.
- Brignoli P.M. (1985): On the correct dates of publication of the arachnid taxa described in some works by C.W. Hahn and C.L. Koch (Arachnida). – Bull. Br. arachnol. Soc. 6: 414-416.
- Cannata, L. (1988): Observations sur les opilions de la tourbière du Cachot. – Bull. Soc. Neuchâtel Sci. Nat. 111: 67-70.
- Chemini, C. (1986): La collezione Canstrini di Opilioni (Arachnida) presso il Museo Zoologico dell'Università di Padova: Revisione e designazione di lectotipi. – Lav. Soc. Ven. Sc. Nat. 11: 121-124.
- Chemini, C. (1989): Sulla sinonimia *Eudasylobus* Roewer, 1911 = *Dasylobus* Simon, 1879, con designazione di lectotipo per *Dasylobus cavanna* Simon, 1882 (Arachnida: Opiliones). – Stud. Trentini Sci. Nat. Acta Biol. 65: 95-121.
- Cokendolpher, J.C. (1985): Erebomastriidae: replaced by Cladonychiidae (Arachnida: Opiliones). – Entomol. News 96: 36.
- Crawford, R.L. (1992): Catalogue of the genera and type species of the harvestman superfamily Phalangioidea (Arachnida). – Burke Mus. Contr. Anthrop. Nat. Hist. 8: 1-60.
- Cotti, G. (1989): Contributo alla conoscenza della fauna geobia del Monte Generoso (Canton Ticino, Svizzera). – Bol. Soc. Ticinese Sci. Nat. 77: 13-34.
- Cuppen, J.G.M. (1994): *Dicranopalpus ramosus*, a new species of harvestman for the Netherlands (Opilionida: Phalangioidea). – Ent. Ber. Amsterdam 54: 176-178.
- Dumitrescu, D. (1987): Contribution à la connaissance de la faune d'opilions (Arachnida) du canton de Fribourg (Suisse). – Bull. Soc. Fribourg Sc. Nat. 76: 136-143.
- Enghoff, H. (1999): *Lacinius horridus* (Panzer, 1794), en ny dansk mejer – samt lidt om Raghammer Odde, Bornholm. – Entomol. Meddel. 67: 137-139.
- Hänggi, A. & I. Weiß (2003): Spinnen (Araneae) und Weberknechte (Opiliones). In: Fauna und Flora auf dem Eisenbahngelände im Norden Basels. – Monogr. Entomol. Ges. Basel 1: 74-79 & 204-205 (Anhang 7).
- Heinäjäki, M. (1944): Die Opilionidenfauna Finnlands. – Acta Zool. Fennica 42: 1-26.
- Klimeš, L. (2000): Checklist of harvestmen (Opiliones) of Czechia and Slovakia. – Ekológia Bratislava 19, Suppl. 3: 125-128. <http://www.butbn.cas.cz/klimes/arachno/OPI.html>
- Komposch, C. (2004): The harvestmen fauna of Hungary (Arachnida, Opiliones). pp. 227-242. In: F. Samu & C. Szinetár (eds.): European Arachnology 2002. – 356 pp.; Budapest (Plant Prot. Inst.) & Szobmathely (Berzsenyi Coll.).
- Komposch, C. & J. Gruber (2004): Die Weberknechte Österreichs (Arachnida, Opiliones). – Denisia 12: 485-534.
- Kury, A.B. (2003): Checklist of valid genera of Opiliones of the world. – <http://acd.ufrj.br/mndi/Aracnologia/checklaniator.htm>
- Lessert, R. de (1917): Opilions. – Catalogue Invertébr. Suisse 9: 1-80.
- Malten, A. (1999): Liste der bisher aus Hessen bekannten Weberknechte (Opiliones). Stand 9.1999. – <http://www.malten.de/Opiliones.html>
- Martens, J. (1978): Weberknechte, Opiliones – Spinnentiere, Arachnida. – Tierwelt Deutschlands 64: 1-464.

- Martens, J. & C. Chemini (1988) Die Gattung *Anelasmacephalus* Simon, 1879. Biogeographie, Artgrenzen und Biospezies-Konzept (Opiliones: Trogludidae). – Zool. Jb. Syst. 115: 1-48.
- Muster, C. (1999): Fünf für Deutschland neue Spinnentiere aus dem bayerischen Alpenraum (Arachnida: Araneae, Opiliones). – Ber. nat.-med. Ver. Innsbruck 86: 149-158.
- Novak, T. & J. Gruber (2000): Remarks on published data on harvestmen (Arachnida: Opiliones) from Slovenia. – Ann. Hist. Nat. 2 (21): 281-308.
- Novak, T. & L. Slana (2003): *Nelima narcisi* n. sp., a dwarf member of the genus from the north-eastern Adriatic coast. – Fragm. entomol. 35: 1-11.
- Novak, T., L. Slana, N. Cervek, M. Mlakar, N. Zmaher & J. Gruber (2002): Harvestmen (Opiliones) in human settlements of Slovenia. – Acta Entomol. Slovenica 10: 131-154.
- Olsen, K.M. (1995): *Opilio parietinus* (De Geer, 1778) (Arachnida, Opiliones) does belong to the Norwegian fauna. – Fauna norv. B 42: 66-67.
- Olsen, K.M. (2000): *Mitostoma chrysomelas* (Hermann, 1804) (Opilionida, Nemastomatidae), a harvestman new to Norway. – Norw. J. Entomol. 47: 24.
- Schmidt, C. (2004): Der Weberknecht *Dicranopalpus ramosus* (Simon, 1909) (Arachnida, Opiliones, Phalangiidae) neu für Deutschland. – Mitt. Arbeitsgem. westf. Entomol. 20: 1-12.
- Skipper, L. (2003): Opiliones – mejere. – http://hjem.get2net.dk/lars_skipper/mejere1.htm
- Spelda, J., H. Rausch, D. Nährig & K.H. Harms (2003): Checkliste und Rote Liste der Weberknechte (Opiliones) Baden-Württembergs. – Naturschutz-Praxis Artenschutz 7: 163-177.
http://www.xfaweb.baden-wuerttemberg.de/nafaweb/berichte/pas_07/pas0731.htm
- Spoek, G.L. (1975): Spinachtigen - Arachnida. III. De Hooiwagens (Opilionida) van Nederland. – Wetensch. Meded. Koninkl. Nederl. Natuurhist. Veren. 50: 1-31.
- Starega, W. (2000): Check-list of harvestmen (Opiliones) of Poland. – <http://www.arachnologia.edu.pl/kosarze.html>
- Stol, I. (1993): Check-list of North European Opiliones. – Fauna norv. B 40: 77-79.
- Stol, I. (2000): Harvestmen (Opiliones) from Hardangervidda. – Fauna Hardangervidda 21: 1-8.
- Stol, I. (2002): De nordiske langbeinartenes utbredelse (Opiliones), med forslag til norske navn. – Insekt-Nytt 27 (4): 11-20.
- Tedeschi, M. & R. Sciaky (1996): Opilioni (Arachnida Opiliones) della Svizzera cisalpina (Ticino, Moesano) raccolti dal Dr. Alessandro Focarile. – Boll. Soc. Tic. Sci. Natur. 84: 41-49.
- Van der Weele, R. (1993): *Opilio canestrinii* nieuw voor de nederlandse fauna (Opilionida: Phalangiidae). – Ent. Ber. Amsterdam 53: 91.
- Vanhercke, L. (1999): Opiliones in Belgium. – <http://www.elve.net/opilio/opibel1999/home.htm>
- Weiß, I., T. Blick, H. Luka, L. Pfiffner & B. Walther (1998): *Trogulus martensi* Chemini, 1983 im Raum Basel (Arachnida, Opiliones, Trogludidae). – Arachnol. Mitt. 16: 21-30.
- Wijnhoven, H. (1998): De hooiwagen *Platybunus pinetorum*, nieuw voor de fauna van Nederland (Opiliones: Phalangiidae). – Ent. Ber. Amsterdam 58: 233-237.
- Wijnhoven, H. (2003): De hooiwagen *Astrobunus laevipes* nieuw voor Nederland (Opiliones: Phalangiidae). – Nederl. Faun. Meded. 19: 73-78.
- Wijnhoven, H. & P. Koomen (1997): *Nemastoma bimaculatum* in Nederland (Arachnida: Opilionida). – Nederl. Faun. Meded. 7: 5-6.

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Links

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