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A summary of the milliped faunas of Pakistan, Bangladesh,  
and Kashmir (Arthropoda: Diplopoda)

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## A summary of the milliped faunas of Pakistan, Bangladesh, and Kashmir (Arthropoda: Diplopoda)

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**Abstract.** Three female callipodidan samples from northern Pakistan are assigned to *Bollmania kohalana* (Attems, 1936) (Caspiopetalidae), the only ordinal representative documented from the country; a new record of *Kaschmiriosoma loebli* Jeekel, 2003 (Polydesmida: Paradoxosomatidae), is also provided. Localities are summarized for the 14 Pakistani, 6 Kashmirian, and 5 Bangladeshi diplopods. The last include one unidentifiable female of *Zephronia* Gray, 1832 (Sphaerotheriida: Zephroniidae), and two adventive species, *Trachyjulus calvus* (Pocock, 1893) (Spirostreptida: Cambalopsidae) and *Asiomorpha coarctata* (Saussure, 1860) (Polydesmida: Paradoxosomatidae); all constitute new country records. Two obscurely documented Bangladeshi diplopods are *Gonoplectus cautus* (Attems, 1936) (Spirostreptida: Harpagophoridae), and *Trichopeltis watsoni* Pocock, 1895 (Polydesmida: Cryptodesmidae). The Pakistani polydesmidan, *Quasidesmus puschtun* Golovatch, 1991, is transferred from Pyrgodesmidae to Cryptodesmidae.

**Key words:** *Anaulaciulus*, *Bollmania*, Chittagong, Jammu and Kashmir, *Kaschmiriosoma*, Khyber Pakhtunkhwa, Punjab, Swat.

### Introduction

While recently perusing diplopod holdings at the California Academy of Sciences (CAS), San Francisco, I discovered samples from two of the world's most poorly sampled countries, Pakistan and Bangladesh. All were collected in 1961 by Edward S. Ross and David Q. Cavagnaro when the countries were united and known as West and East Pakistan, respectively. Beyond representing poorly known faunas, the samples assume greater significance as Pakistan is now basically "off-limits" to westerners because of armed conflicts and cultural differences. Consequently, I put this material on record because few opportunities will probably arise in the near future to enhance knowledge of these poorly known Asian countries. Since the pioneering works on Indian Diplopoda (Attems 1936) and ones on, primarily, southern India and Sri Lanka (= Ceylon) (Carl 1922, 1932, 1941), six country and regional checklists have documented Asian millipeds between the Persian Gulf and South China Sea: Iran (Golovatch 1983, Enghoff and Moravvej 2005), Thailand (Enghoff 2005), Laos (Likhitrakarn et al. 2014), Vietnam (Enghoff et al. 2004), and the Himalayas (Golovatch and Martens 1996). I continue this trend by updating faunal knowledge of Pakistan, Bangladesh, and the Kashmir region, to consolidate records and facilitate research by future diplopodologists. Along with new works on India and Sri Lanka, checklists are particularly needed for Cambodia, Malaysia, and Myanmar, the remaining coastal countries of southern Asia, aside from the Arabian Peninsula, lacking consolidated diplopod treatments.

**Pakistan and Kashmir.** As noted by Shelley and Golovatch (2011), diplopods, all indigenous, are known only from the northern 1/3 of Pakistan; none have been recorded from the southern 2/3, which encompasses Sind, Balochistan, and southern Punjab provinces (provs.), the Indus Delta and lower river valley, and the Thar, Cholistan, Thali, and Kharan deserts. Ten species are known from Khyber Pakhtunkhwa, the northernmost province that borders Kashmir. Possession of Kashmir is disputed and presently divided among Pakistan, India, and China. To my knowledge, diplopods have not been reported from the Chinese and Pakistani sectors, so I list those from Jammu and Kashmir State, India. Below, I cite the CAS samples and summarize Pakistani and Kashmirian diplopods in Tables 1 and 2, respectively.

**Order Callipodida: Family Caspiopetalidae*****Bollmania kohalana* (Attems, 1936)**

*Apatidea kohalana* Attems, 1936: 249–251, figs. 54–56.

*Bollmania kohalana*: Jeekel, 1955: 417. Golovatch, 1983: 160 (text and key); 1991: 867 (text). Stoev and Enghoff, 2005: 1886 (key). Stagl and Stoev, 2005: 15–16. Stoev et al. (2008): 14.

*Bollmania* sp.: Golovatch, 1991: 867.

**CAS localities.** *Punjab Prov.*, Murree, 1,200 m, F, 16 December 1961; and 32 km (20 mi) NE Rawalpindi, 850–950 m, F, 16 December 1961. *Khyber Pakhtunkhwa Prov.*, 3.2 km (2 mi) N Kohat, 600 m, 4F, 19 December 1961.

**Remarks.** In the original description, Attems (1936) reported two individuals and localities, but did not specify the type locality, so both specimens are syntypes. As suggested by Stagl and Stoev (2005), the first locality mentioned, implied to be the type locality by Stoev et al. (2008), is Kohala, on the Jhelum River north of Murree, south of Muzaffarabad, and east of Circle Bakote. I cannot locate the second site, but it is also in the Murree Subdivision though 4,000' higher and probably near Kohala.

The only male callipodidan from Pakistan is one of the syntypes of *A. kohalana*, so I combine all prior records under this species. Most samples are from the northeast near Islamabad and Rawalpindi and seem likely to be conspecific.

**Order Polydesmida: Family Paradoxosomatidae: Tribe Sulciferini*****Kaschmiriosoma loebli* Jeekel, 2003**

**CAS locality.** *Khyber-Pakhtunkhwa Prov.*, 3.2 km (2 mi) W Cherat, 1,200 m, MM, FF, 20 December 1961.

**Remarks.** Hoffman (1980) cited *Kaschmiriosoma* Schubart, 1935, as a genus of uncertain status and tribal position, but Jeekel (2003) assigned it to Sulciferini. This allocation has been followed by Golovatch (2012) and Nguyen and Sierwald (2013).

**Table 1.** Diplopod records from Pakistan.

Taxon	Province(s) and Locality(ies)	References	Remarks
<b>Siphonophorida: Siphonophoridae.</b> <i>Siphonophora duschman</i> Golovatch, 1991.	<i>Khyber Pakhtunkhwa Prov.</i> , above Miandam.	Golovatch 1991; Jeekel 2001.	The only highly disjunct locality in Central Asia of the order/family. As with Heterochordeumatidae (Chordeumatida) and <i>Delarthrum obscurum</i> (Polydesmida: Paradoxosomatidae), both in Pakistan, and <i>Kronopolites obscurum</i> , in Kashmir, <i>S. duschman</i> is probably the westernmost Oriental outlier of this speciose genus.
<b>Callipodida: Caspiopetalidae</b> <i>Bollmania kohalana</i> (Attems, 1936).	<i>Punjab Prov.</i> , Kohala, Gharial, Hazara, Murree, 32 km (20 mi) NE Rawalpindi. <i>Khyber Pakhtunkhwa Prov.</i> , Swat Dist., Malam Jabba, 3.2 km (2 mi) N Kohat.	Attems 1936 (as <i>Apatidea kohalana</i> ); Jeekel 1955; Golovatch 1991; Read and Golovatch 1994; Stagl and Stoev 2005; Stoev et al 2008; herein.	Localities include those of <i>Bollmania</i> sp. by Golovatch (1991).
<b>Chordeumatida: Heterochordeumatidae</b>	<i>Khyber Pakhtunkhwa Prov.</i> , Swat Dist., Malam Jabba.	Golovatch 1991.	Based on an unidentifiable female with obvious, broad paranota (see Shear 2000, fig. 16). As with <i>Siphonophora duschman</i> (Siphonophoridae) and <i>Delarthrum obscurum</i> (Polydesmida: Paradoxosomatidae), both in Pakistan, and <i>Kronopolites occidentalis</i> in Kashmir, the heterochordeumatid record seems the westernmost outlier species of this southeast Asian family. Shear (2000) did not mention this Pakistani record and cited the family from Myanmar to Indonesia (Sumatra/Mentawai Islands).
<b>Julida: Julidae.</b> <i>Anaulaciulus pakistanus</i> Korsós, 2001.	<i>Khyber Pakhtunkhwa Prov.</i> , Swat Dist., Malam Jabba, above Utrot.	Korsós 1996, 2001.	Golovatch (1991) cited <i>Anaulaciulus</i> sp. from North Pakistan in general, which could be either <i>pakistanus</i> or <i>tigris</i> .

<i>Anaulaciulus tigris</i> Korsós, 2001.	Khyber Pakhtunkhwa Prov., Swat Dist., above Miandam.	Korsós 1996, 2001.	
<b>Polydesmida: Polydesmidae.</b> <i>Epanerchodus swatensis</i> (Golovatch, 1991).	North Pakistan in general; <i>Khyber Pakhtunkhwa Prov.</i> , Malam Jabba, above Miandam, upstream from Kalam, Lawarai Pass, above Naran	Golovatch 1991; Read and Golovatch 1994; Golovatch et al. 2011.	Originally described in <i>Usbekodesmus</i> , synonymized under <i>Epanerchodus</i> by Golovatch et al. (2011) and reiterated by Golovatch et al. (2012a). Localities include those for <i>Usbekodesmus</i> sp. (Golovatch 1991). Read and Golovatch (1994) suggested that the species may be endemic to North Pakistan.
<b>Polydesmida: Cryptodesmidae</b> <i>Quasidesmus puschun</i> Golovatch, 1991.	<i>Khyber Pakhtunkhwa Prov.</i> , Malam Jabba, above Miandam, Lawarai Pass	Golovatch 1991.	Transferred from Pyrgodesmidae to Cryptodesmidae per Dr. Golovatch's recommendation (in litt.).
<b>Polydesmida: Paradoxosomatidae: Alogolykinae: Polydrepanini</b> <i>Delarthrum obscurum</i> Attems, 1936.	Pakistan in general; North Pakistan in general; <i>Punjab Prov.</i> , Abbotabad, Changla Gali.	Attems 1936, 1937; Jeekel 1968; Golovatch 1991; Nguyen and Sierwald 2013.	<i>Delarthrum</i> is a speciose Himalayan genus with nearly 50 primarily Nepalese species (Golovatch 2014). As with <i>Siphonophora dushman</i> (Siphonophorida:idea) and Heterochordeumatidae, both in Pakistan, and <i>Kronopolites occidentalis</i> in Kashmir, <i>D. obscurum</i> seems the westernmost outlier of the genus.
<b>Paradoxosomatinae: Sulciferini</b> <i>Kashmiriosoma contortipes</i> Schubart, 1935.	Pakistan in general; North Pakistan in general; <i>Khyber Pakhtunkhwa Prov.</i> , Naran, Hazara. KASHMIR, region in general; INDIA, <i>Jammu and Kashmir State</i> , Sind Valley, Matayan.	Schubart 1935; Silvestri 1936; Attems 1937; Jeekel 1968, 2003; Golovatch 1983, 1991; Read and Golovatch 1994; Golovatch and Martens 1996; Nguyen and Sierwald 2013.	
<i>Kashmiriosoma nulla</i> (Attems, 1936).	Pakistan in general; <i>Punjab Prov.</i> in general.	Attems 1936, 1937; Jeekel 1968, 2003.	
<i>Kashmiriosoma pleuropterum</i> (Attems, 1936).	Pakistan in general; <i>Punjab Prov.</i> in general; Changla Gali.	Attems 1936, 1937; Jeekel 1968, 2003; Golovatch 1991.	
<i>Kashmiriosoma nodosum</i> Jeekel, 2003.	<i>Khyber Pakhtunkhwa Prov.</i> , Swat Dist., above Utrot. Lawarai Pass. <i>Chitral Prov.</i> , Bumburet, above Madaglasht.	Jeekel 2003; Nguyen and Sierwald 2013.	
<i>Kashmiriosoma loebli</i> Jeekel, 2003	<i>Khyber Pakhtunkhwa Prov.</i> , Swat Dist., Marghuzar; 3.2 km (2 mi) W Cherat.	Jeekel 2003; Golovatch 2012; Nguyen and Sierwald 2013; herein.	
<b>Xanthodesmini</b> <i>Streptogonopus phipsoni</i> (Pocock, 1892).	<i>Punjab Prov.</i> , Ahmedabad, Rawalpindi.	Attems 1936, 1937; Jeekel 1968.	Presumably not Ahmedabad, Gujarat State, India.

**Table 2.** Diplopod records from Kashmir.

Taxon	Locality(ies)	References	Remarks
Polyxenida: Polyxenidae. <i>Polyxenus</i> sp.	Kashmir in general.	Silvestri 1936; Golovatch 1991; Golovatch and Martens 1996.	
Chordeumatida: Kashmireumatidae <i>Kashmireuma nielsenii</i> Mauriès, 1982.	Kashmir in general; INDIA, <i>Jammu and Kashmir State</i> , Gulmarg, Sonamarg.	Mauriès 1982; Golovatch and Martens 1996.	The record of <i>Kashmireuma</i> sp. (Mauriès 1982) is included here.
Julida: Julidae <i>Anaulaciulus kashmirensis</i> Korsós, 2001.	Kashmir in general; INDIA, <i>Jammu and Kashmir State</i> , Sonamarg, Nichinai Valley.	Korsós 1996, 2001; Golovatch and Martens 1996.	
<i>Anaulaciulus topali</i> Korsós, 2001.	Kashmir in general; INDIA, <i>Jammu and Kashmir State</i> , Pahalgam, Yusmarg.	Korsós 1996, 2001; Golovatch and Martens 1996.	
Polydesmida: Paradoxosomatidae: Paradoxosomatinae: Sulciferini <i>Kashmiriosoma contortipes</i> Schubart, 1935.	Kashmir in general; INDIA, <i>Jammu and Kashmir State</i> , Sind Valley, Matayan.	Schubart 1935; Silvestri 1936; Attems 1937; Jeekel 1968, 2003; Golovatch 1983, 1991; Read and Golovatch 1994; Golovatch and Martens 1996; Nguyen and Sierwald 2013.	
<i>Kronopolites occidentalis</i> Golovatch, 1983	Kashmir in general	Golovatch 1983, 1991; Golovatch and Martens 1996.	As with <i>Siphonophora dushman</i> (Siphonophorida:idea), Heterochordeumatidae, and <i>Delarthrum obscurum</i> (Polydesmida: Paradoxosomatidae), all in Pakistan, <i>K. obscurum</i> is probably the westernmost outlier of this speciose Oriental genus.

**Bangladesh.** Shelley and Golovatch (2011) identified nine countries lacking records of Diplopoda, both indigenous and adventive – Turks and Caicos (Western Hemisphere, Caribbean Region); Vatican City (Europe); Mauritania and perhaps Egypt (Africa); and Bahrain, Kuwait, Oman, Qatar, and United

Arab Emirates (Arabian Peninsula). I once had Bangladesh on this roster but was advised of records in Attems (1936) when it was “East Bengal,” India. Checking all miscellaneous localities in this work in Google Maps, Google Earth, and/or Wikipedia, I found two species from modern Bangladesh, both in the southernmost Division, Chittagong; Demange (1961) also reported the harpagophorid from the larger northern section. I also discovered that “Bangladesh” itself is mentioned in two works, Hoffman and Burkhalter (1978) and Jeekel (2006). I cite the CAS species, all new country records, followed by those documented in literature.

**New Country Records for Bangladesh**  
**Order Sphaerotheriida: Family Zephroniidae**  
***Zephronia* sp.**

*CAS locality:* Chittagong Div., Chittagong Dist., Sitakunda Upazila, Baraiyadhala Forest Reserve, 45m, F, 21 September 1961.

*Remarks.* Dr. Thomas Wesener (Museum A. Koenig, Bonn, Germany) has kindly advised me of a single unidentified female sphaerotheriidan taken by the same collectors at the same time and housed in the same CAS collection.

**Order Spirostreptida: Family Cambalopsidae**  
***Trachyjulus calvus* (Pocock, 1893)**

*CAS locality:* Chittagong Div., Chittagong Dist., Lohagara Upazila, Chittagong (city), M, F, 10 September 1961.

*Remarks.* *Trachyjulus calvus* is a somewhat pantropical species that has been introduced to Venezuela and Brazil in the Western Hemisphere (Hoffman 1977, Golovatch et al. 2012b). Its discovery in a synanthropic habitat in Chittagong suggests adventive status, but with natural occurrence in Myanmar, it could also be indigenous to southern Bangladesh.

**Order Polydesmida: Family Paradoxosomatidae: Tribe Orthomorphiini**  
***Asiomorpha coarctata* (Saussure, 1860)**

*CAS locality:* Chittagong Div., Chittagong Dist., Lohagara Upazila, Chittagong (city), MM, FF, 10 September 1961.

*Remarks.* I assign this species to *Asiomorpha* Verhoeff, 1939, in accordance with the latest treatment (Nguyen and Sierwald 2013).

**Previously Documented Species**  
**Order Spirostreptida: Family Harpagophoridae.**  
***Gonoplectus cautus* (Attems, 1936)**

*Published records.* Chittagong Div., Rangamati Dist., Langadu Upazila, Myanimukh, at confluence of Myani and Kasalong rivers (Attems 1936, Hoffman and Burkhalter 1978, Jeekel 2006). Sylhet Div., Sylhet Dist., Sylhet Upazila, Chargola Valley (Demange 1961, Hoffman and Burkhalter 1978).

*Remarks.* Described in *Thyroglutus* Attems, 1936, *cautus* was transferred to *Gonoplectus* Chamberlin, 1921, by Demange (1961) and has subsequently been cited in keys (Attems 1942, Demange 1986) and lists (Attems 1942, Jeekel 2006). Myanimukh, spelled “Mianimukh” by Attems (1936), the type locality, is a small place on northern Kaptai Lake in the “Chittagong Hills Tract.”

**Order Polydesmida: Family Cryptodesmidae**  
***Trichopeltis watsoni* Pocock, 1895**

*Published record.* Chittagong Div., Chittagong Dist., Lohagara Upazila, “Shishgk Valley, Chittagong Hills Tract,” exact location uncertain but apparently near National Medical Hall east of Chittagong itself (Attems 1936, 1940).

*Remarks.* *Trichopeltis watsoni*, a widespread Asian species whose type locality is the North Chin Hills, Chin State, Myanmar, has a convoluted nomenclatural history (Golovatch et al. 2010). Pocock (1895) originally assigned it to this genus, but Cook (1896) designated it the type species of his new genus, *Otodesmus*. Attems (1914) repeated this assignment though he earlier (Attems 1899) cited *watsoni* under both *Trichopeltis* and *Otodesmus*. Attems (1936) reported it from the Chittagong Hills among other localities but mistakenly named the genus, *Trichodesmus*; four years later, he (Attems 1940) correctly cited it in combination with *Trichopeltis*. Hoffman (1973, 1980), the latter by implication, returned *watsoni* to *Otodesmus* where it remained until material of related cryptodesmids required Golovatch et al. (2010) to place *Otodesmus* in synonymy under *Trichopeltis*.

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### Literature Cited

- Attems C. 1899.** System der Polydesmiden. II. Theil. Denkschriften der mathematisch-naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften 68: 251–436.
- Attems, C. 1914.** Die indo-australischen Myriopoden. Archive für Naturgeschichte. 80A: 1–396.
- Attems, C. 1936.** Diplopoda of India. Memoirs of the Indian Museum 11(4): 133–323.
- Attems, C. 1937.** Myriopoda 3. Polydesmoidea I. Fam. Strongylosomidae. Das Tierreich 68: 1–300 + i–xxii.
- Attems, C. 1940.** Myriopoda 3. Polydesmoidea III. Fam. Polydesmidae, Vanhoeffeniidae, Cryptodesmidae, Oniscodesmidae, Sphaeriotrichopidae, Peridotodesmidae, Rhachidesmidae, Macellophidae, Pandirodesmidae. Das Tierreich 70: 1–577 + i–xxxii.
- Attems, C. 1942.** Zur Kenntnis der Indischen Harpagophoridae. Annalen des Naturhistorischen Museums in Wien 52: 66–105.
- Carl, J. 1922.** VIII. Diplopoden aus Sumatra, Java, Malakka und Ceylon. Zoologischer Jahrbucher., Systematik 44: 565–578.
- Carl, J. 1932.** Diplopoden aus Süd-Indien und Ceylon 1. Teil. Polydesmoidea. Revue Suisse de Zoologie 39(17): 411–529.
- Carl, J. 1941.** Diplopoden aus Süd-Indien und Ceylon 2.1. Teil: Nematophora und Juliformia. Revue Suisse de Zoologie 48(22): 569–714.
- Cook, O. F. 1896.** *Cryptodesmus* and its allies. Brandtia 5: 19–28.
- Demange, J.-M. 1961.** Matériaux pour servir a une révision des Harpagophoridae (Myriapodes-Diplopedes). Mémoires du Muséum National d’Histoire Naturelle, Nouvelle Série. Série A, Zoologie 24: 1–274.
- Demange, J.-M. 1986.** Harpagophoridae de Thaïlande et de Malaisie (Myriapoda, Diplopoda, Spirostrep-tida). Bulletin du Muséum National d’Histoire Naturelle, Paris, 4e Série 8(section A [4]): 851–865.
- Enghoff, H. 2005.** The millipedes of Thailand (Diplopoda). Steenstrupia 29(1): 87–103.

- Enghoff, H., and S. A. Moravvej. 2005.** A review of the millipede fauna of Iran (Diplopoda). *Zoology in the Middle East* 35: 61–72.
- Enghoff, H., S. I. Golovatch, and A. D. Nguyen. 2004.** A review of the millipede fauna of Vietnam (Diplopoda). *Arthropoda Selecta* 13(1–2): 29–43.
- Golovatch, S. I. 1983.** A contribution to the millipede fauna of Iran (Diplopoda). *Annalen des Naturhistorischen Museums in Wien* 85/B: 157–169.
- Golovatch, S. I. 1991.** On a small collection of millipedes (Diplopoda) from northern Pakistan and its zoogeographic significance. *Revue Suisse de Zoologie* 98(4): 865–878.
- Golovatch, S. I. 2012.** On several new or poorly-known Oriental Paradoxosomatidae (Diplopoda: Polydesmida), XII. *Arthropoda Selecta* 21(1): 1–12.
- Golovatch, S. I. 2014.** On several new or poorly-known Oriental Paradoxosomatidae (Diplopoda: Polydesmida), XVI. *Arthropoda Selecta* 23(3): in press.
- Golovatch, S. I., and J. Martens. 1996.** On the distribution and faunogenesis of Himalayan millipedes (Diplopoda): Preliminary results. p. 163–174, *In: J.-J. Geoffroy, J.-P. Mauriès, and M. Nguyen Duy-Jacquemin (eds.), Acta Myriapodologica. Mémoires du Muséum National d'Histoire Naturelle* 169: 1–682.
- Golovatch, S. I., J.-J. Geoffroy, J.-P. Mauriès, and D. VandenSpiegel. 2010.** Two new species of the milliped genus *Trichopeltis* Pocock, 1894 (Diplopoda: Polydesmida: Cryptodesmidae) from Vietnam and China. *Arthropoda Selecta* 19(2): 63–72.
- Golovatch, S. I., E. V. Mikhaljova, and H.-W. Chang. 2011.** The millipede family Polydesmidae in Taiwan, with descriptions of five new species (Polydesmida, Diplopoda). *ZooKeys* 93: 9–42.
- Golovatch, S. I., W. Liu, Y. Li, and J.-J. Geoffroy. 2012a.** One new and two little-known species of the millipede family Polydesmidae from southern China (Diplopoda: Polydesmida). *Arthropoda Selecta* 21(2): 131–136.
- Golovatch, S. I., J.-J. Geoffroy, J.-P. Mauriès, and D. VandenSpiegel. 2012b.** New or poorly known species of the millipede genus *Trachyjulus* Peters, 1864 (Diplopoda: Spirostreptida: Cambalopsidae). *Arthropoda Selecta* 21(2): 103–129.
- Hoffman, R. L. 1973.** A new millipede of the genus *Chonodesmus*, with a proposed reclassification of the family Cryptodesmidae (Diplopoda, Polydesmida). *Studies on the Neotropical Fauna* 8: 179–193.
- Hoffman, R. L. 1977.** Diplopoda from Malayan Caves collected by M. Pierre Strinati. *Revue Suisse de Zoologie* 84(3): 699–719.
- Hoffman, R. L. 1980 (1979).** Classification of the Diplopoda. Muséum d'Histoire Naturelle, Genève, Switzerland. 237 p.
- Hoffman, R. L., and E. A. Burkhalter. 1978.** Studies on spirostreptoid millipedes XIV. A new species of *Gonoplectus* from Thailand, with notes on the status and distribution of the genus (Spirostreptida: Harpagophoridae). *Journal of Natural History* 12: 413–422.
- Jeekel, C. A. W. 1955.** Milliped miscellany II. *Entomologische Berichten* 15: 412–417.
- Jeekel, C. A. W. 1968.** On the classification and geographical distribution of the family Paradoxosomatidae (Diplopoda, Polydesmida). *Nederlandse Entomologische Vereniging; Amsterdam*. 162 p.
- Jeekel, C. A. W. 2001.** A bibliographic catalogue of the Siphonophorida (Diplopoda). *Myriapod Memoranda* 3: 44–71.
- Jeekel, C. A. W. 2003.** Paradoxosomatidae from north Pakistan, collected by Cl. Besuchet and I. Löbl in 1983 (Diplopoda, Polydesmida). *Myriapod Memoranda* 6: 14–27.
- Jeekel, C. A. W. 2006.** A bibliographic catalogue of the Oriental Harpagophoridae (Diplopoda: Spirostreptida). *Myriapod Memoranda* 9: 5–58.
- Korsós, Z. 1996.** An approach to the revision of the East Asian milliped genus *Anaulaciulus*. p. 35–43, *In: J.-J. Geoffroy, J.-P. Mauriès, and M. Nguyen Duy-Jacquemin (eds.), Acta Myriapodologica. Mémoires du Muséum National d'Histoire Naturelle* 169: 1–682.
- Korsós, Z. 2001.** Diplopoda from the Nepal Himalaya: Towards the clarification of the genus *Anaulaciulus* Pocock, 1895 (Diplopoda, Julida, Julidae, Brachyiulini). *Senckenbergiana Biologica* 81(1/2): 61–86.
- Likhitrakarn, N., S. I. Golovatch, and S. Panha. 2014.** A checklist of the millipedes (Diplopoda) of Laos. *Zootaxa* 3754(4): 473–482



- Mauriès, J.-P. 1982.** Une famille nouvelle et deux genres nouveaux de Cleidogonoidea, avec notes sur la classification de la superfamille (Diplopoda, Craspedosomida). *Steenstrupia* 8(6): 165–176.
- Nguyen, A. D., and P. Sierwald. 2013.** A worldwide catalog of the family Paradoxosomatidae Daday, 1889 (Diplopoda: Polydesmida). *Check List* 9(8): 1132–1353.
- Pocock R.I. 1895.** Viaggio di Leonardo Fea in Birmania e regioni vicine LXVII. The Myriopoda of Burma, Pt. IV. Report upon the Polydesmoidea collected by Sig. L. Fea, Mr. E.W. Oates and others. *Annali del Museo civico di storia naturale di Genova, Series 2* 14(34): 787–834.
- Read, H. J., and S. I. Golovatch. 1994.** A review of the central Asian millipede fauna. *Bulletin of the British Myriapod Group* 10: 59–70.
- Schubart, O. 1935.** Diplopoda. Wissenschaftliche Ergebnisse der Niederländischen Expeditionen in den Karakorum und die Angrenzenden Gebiete 1922, 1925 und 1929/30. *Zoologie*: 187–193.
- Shear, W. A. 2000.** On the milliped family Heterochordeumatidae, with comments on the higher classification of the order Chordeumatida (Diplopoda). *Invertebrate Taxonomy* 14: 363–376.
- Shelley, R. M., and S. I. Golovatch. 2011.** Atlas of myriapod biogeography. I. Indigenous ordinal and supra-ordinal distributions in the Diplopoda: Perspectives on taxon origins and ages, and a hypothesis on the origin and early evolution of the class. *Insecta Mundi* 0158: 1–134.
- Silvestri, F. 1936.** Report on Myriapods. *Memoirs of the Connecticut Academy of Arts and Sciences* 10(13): 241–252.
- Stagl, V., and P. Stoev. 2005.** Type specimens of the order Callipodida (Diplopoda) in the Natural History Museum in Vienna. *Kataloge der wissenschaftlichen Sammlungen des Naturhistorischen Museums in Wien* 19(2): 1–26.
- Stoev, P., and H. Enghoff. 2005.** A new cave-dwelling millipede of the genus *Bollmania* Silvestri, 1896, from Yunnan, China, with remarks on the reduction of the second female leg-pair (Diplopoda: Callipodida: Caspiopetalidae). *Journal of Natural History* 39(21): 1875–1891.
- Stoev, P., P. Sierwald, and A. Billey. 2008.** An annotated world catalogue of the millipede order Callipodida (Arthropoda: Diplopoda). *Zootaxa* 1706: 1–50.

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